

# SITE IMPROVEMENT PLANS

FOR

## 1203 LAKEVIEW DRIVE

WINDHAM LAKES LOT 2

ROMEVILLE, ILLINOIS

ML REALTY PARTNERS, LLC.



**D108b**  
**1203 LAKEVIEW DRIVE**  
**5/17/22**

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### CONTACTS

**CIVIL ENGINEER**  
JACOB & HEFNER ASSOCIATES, INC  
1333 BUTTERFIELD ROAD, SUITE 300  
DOWNERS GROVE, IL 60515  
CONTACT: RYAN BLOCKER, P.E.  
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(630) 652-4630

**DEVELOPER**  
ML REALTY PARTNERS  
ONE PIERCE PLACE, SUITE 450  
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(630) 250-2905

**ARCHITECT**  
HARRIS ARCHITECTS  
1475 E. WOODFIELD ROAD, SUITE 925  
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RHARRIS@HARRISARCHITECTS.COM  
(847) 303-1155

**SURVEYOR**  
WEAVER CONSULTANTS GROUP  
1316 BOND STREET, SUITE 108  
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(630) 717-4848

**VILLAGE OF ROMEVILLE**  
JONATHAN A. ZABROCKI, P.E.  
C/O VILLAGE OF ROMEVILLE  
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ROMEVILLE, IL 60446  
JZABROCKI@RELTLD.COM  
(815) 886-1870

**NOTE:**  
FOR MUNICIPAL INSPECTIONS, PLEASE CALL (815) 886-6355.

### DRAINAGE CERTIFICATE

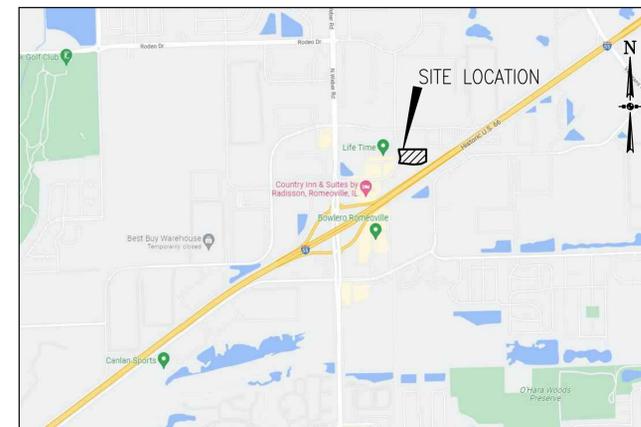
I, RYAN J. BLOCKER, HEREBY CERTIFY THAT ADEQUATE STORM WATER STORAGE AND DRAINAGE CAPACITY HAS BEEN PROVIDED FOR THIS DEVELOPMENT, SUCH THAT SURFACE WATER FROM THIS DEVELOPMENT WILL NOT BE DIVERTED ONTO AND CAUSE DAMAGE TO ADJACENT PROPERTY FOR STORMS UP TO AND INCLUDING THE ONE HUNDRED (100) YEAR EVENT, AND THAT THE DESIGN PLANS ARE IN COMPLIANCE WITH ALL APPLICABLE STATE, COUNTY, AND VILLAGE ORDINANCES.

ENGINEER  
RYAN J. BLOCKER  
RBLOCKER@JACOBANDHEFNER.COM  
ILLINOIS REGISTRATION NO. 062-060791  
EXPIRES 11/30/2023

ENGINEER ONLY CERTIFIES SHEETS C1-C10  
THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE ORIGINAL SIGNATURE, IMPRESSED SEAL, EXPIRATION DATE OF SEAL OF THE ENGINEER AND MARKED "FOR CONSTRUCTION"

### LEGEND

PROPOSED	DESCRIPTION	EXISTING
	STORM SEWER	
	WATER MAIN (WITH SIZE)	
	SANITARY SEWER	
	FORCE MAIN	
	OVERHEAD ELECTRIC	
	UNDERGROUND TELEPHONE	
	UNDERGROUND GAS	
	CONTOUR	
	HIGH/NORMAL WATER LEVEL	
	SILT FENCE	
	RIGHT-OF-WAY	
	CURB	
	DEPRESSED CURB FOR RAMP/DRIVEWAY	
	FENCE LINE	
	GUARD RAIL	
	SANITARY MANHOLE	
	STORM MANHOLE	
	STORM INLET	
	STORM CATCH BASIN	
	CLEAN OUT	
	FIRE HYDRANT	
	GATE VALVE AND VAULT	
	STREET LIGHT	
	STREET LIGHT WITH MAST	
	TRANSFORMER	
	UTILITY POLE	
	SIGN	
	DRAINAGE DIRECTION	
	OVERFLOW ROUTE	
	SPOT GRADE	
	FINISHED FLOOR	
	TOP OF FOUNDATION GROUND	
	EDGE OF PAVEMENT	
	BACK/TOP OF CURB	
	TOP OF SIDEWALK	
	TOP OF RETAINING WALL	
	BOTTOM OF RETAINING WALL	
	RIM FOR STRUCTURES	
	RISER FOR SANITARY SERVICE	
	INVERT FOR SEWERS	



### LOCATION MAP

NOT TO SCALE

### SURVEY REFERENCE NOTE:

EXISTING CONDITIONS AND TOPOGRAPHY ARE SHOWN PER THE "TOPOGRAPHIC AND BOUNDARY SURVEY," DATED FEBRUARY 17, 2022 AS PREPARED BY WEAVER CONSULTANTS GROUP

CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES OR OMISSIONS.

BASIS OF BEARINGS:  
NAD 83 ILLINOIS STATE PLANE COORDINATES, EAST ZONE.

BASIS OF ELEVATION: NAVD 1988

### BENCHMARK AND LOCATIONS:

#### SITE BENCHMARKS:

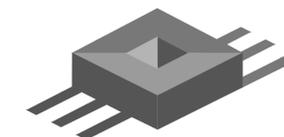
SITE BM 1: CROSS CUT IN CURB ADJACENT TO THE 1ST FIRE HYDRANT APPROXIMATELY 217 FEET NORTH OF THE NORTHWEST CORNER OF SUBJECT PROPERTY ON LAKEVIEW DRIVE.

ELEVATION=662.75'

SITE BM 2: CROSS CUT IN CURB ADJACENT TO THE 1ST FIRE HYDRANT APPROXIMATELY 282 SOUTH OF THE SOUTHWEST CORNER OF SUBJECT PROPERTY ON LAKEVIEW DRIVE.

ELEVATION=661.58'

NO.	DESCRIPTION	DATE
3	REVISED PER VILLAGE	5/17/22
2	PERMIT SET	4/22/22
1	CLIENT REVIEW	4/15/22
REVISIONS		



**JACOB & HEFNER**  
ASSOCIATES

1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515

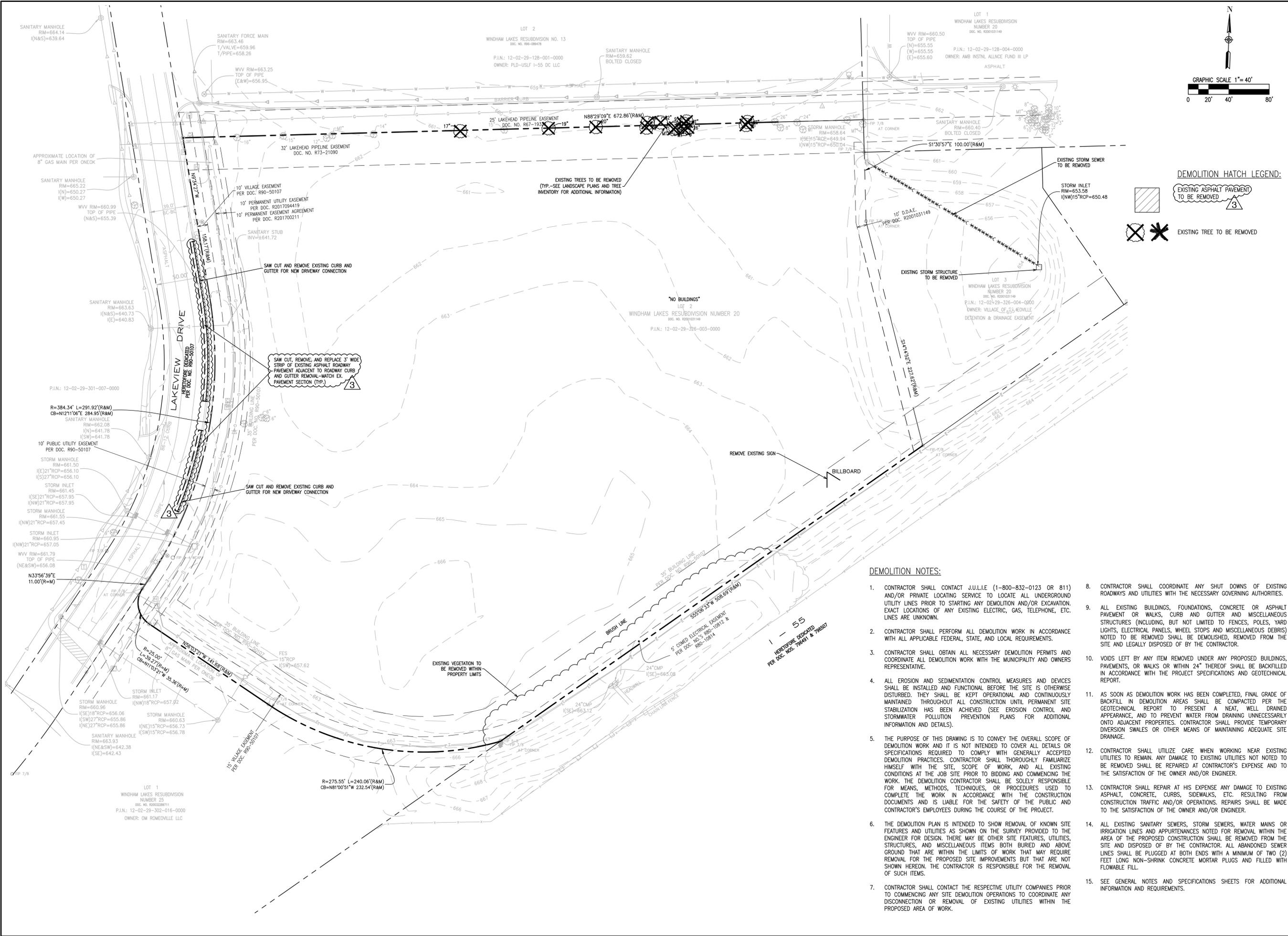
PHONE: (630) 652-4600, FAX: (630) 652-4601

www.jacobandhefner.com



Municipality: ROMEVILLE  
County: WILL  
Section: 29  
Township: 37N  
Range: 10E

**FOR REVIEW PURPOSES ONLY**



**DEMOLITION HATCH LEGEND:**

EXISTING ASPHALT PAVEMENT TO BE REMOVED

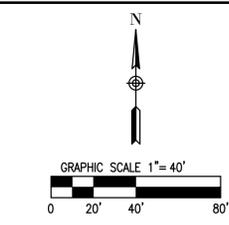
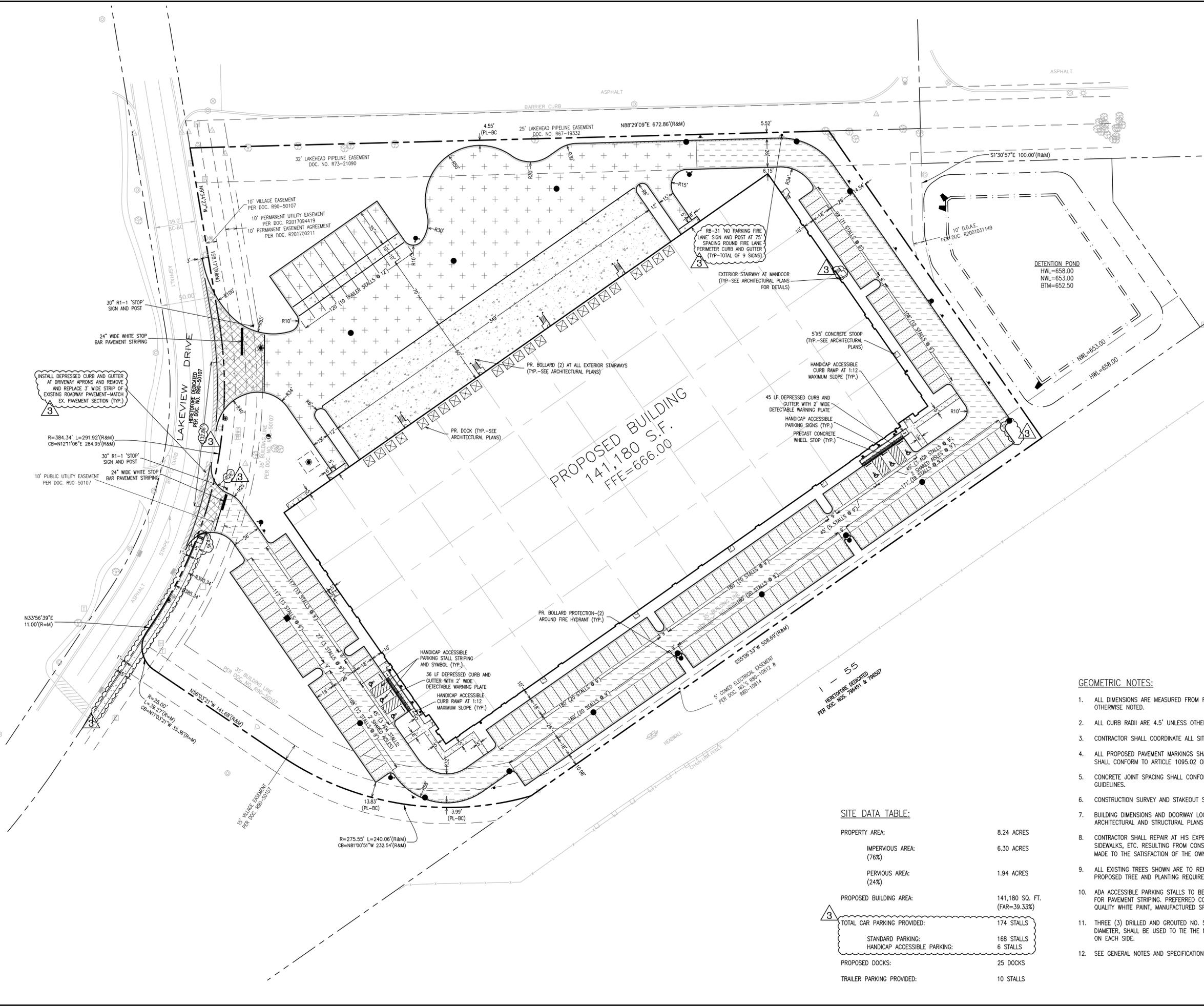
EXISTING TREE TO BE REMOVED

- DEMOLITION NOTES:**
- CONTRACTOR SHALL CONTACT J.U.L.I.E (1-800-832-0123 OR 811) AND/OR PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
  - CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
  - CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION PERMITS AND COORDINATE ALL DEMOLITION WORK WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE.
  - ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND CONTINUOUSLY MAINTAINED THROUGHOUT ALL CONSTRUCTION UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED (SEE EROSION CONTROL AND STORMWATER POLLUTION PREVENTION PLANS FOR ADDITIONAL INFORMATION AND DETAILS).
  - THE PURPOSE OF THIS DRAWING IS TO CONVEY THE OVERALL SCOPE OF DEMOLITION WORK AND IT IS NOT INTENDED TO COVER ALL DETAILS OR SPECIFICATIONS REQUIRED TO COMPLY WITH GENERALLY ACCEPTED DEMOLITION PRACTICES. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE, SCOPE OF WORK, AND ALL EXISTING CONDITIONS AT THE JOB SITE PRIOR TO BIDDING AND COMMENCING THE WORK. THE DEMOLITION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, OR PROCEDURES USED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND IS LIABLE FOR THE SAFETY OF THE PUBLIC AND CONTRACTOR'S EMPLOYEES DURING THE COURSE OF THE PROJECT.
  - THE DEMOLITION PLAN IS INTENDED TO SHOW REMOVAL OF KNOWN SITE FEATURES AND UTILITIES AS SHOWN ON THE SURVEY PROVIDED TO THE ENGINEER FOR DESIGN. THERE MAY BE OTHER SITE FEATURES, UTILITIES, STRUCTURES, AND MISCELLANEOUS ITEMS BOTH BURIED AND ABOVE GROUND THAT ARE WITHIN THE LIMITS OF WORK THAT MAY REQUIRE REMOVAL FOR THE PROPOSED SITE IMPROVEMENTS BUT THAT ARE NOT SHOWN HEREON. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF SUCH ITEMS.
  - CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCING ANY SITE DEMOLITION OPERATIONS TO COORDINATE ANY DISCONNECTION OR REMOVAL OF EXISTING UTILITIES WITHIN THE PROPOSED AREA OF WORK.
  - CONTRACTOR SHALL COORDINATE ANY SHUT DOWNS OF EXISTING ROADWAYS AND UTILITIES WITH THE NECESSARY GOVERNING AUTHORITIES.
  - ALL EXISTING BUILDINGS, FOUNDATIONS, CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURB AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, WHEEL STOPS AND MISCELLANEOUS DEBRIS) NOTED TO BE REMOVED SHALL BE DEMOLISHED, REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
  - VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDINGS, PAVEMENTS, OR WALKS OR WITHIN 24" THEREOF SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT.
  - AS SOON AS DEMOLITION WORK HAS BEEN COMPLETED, FINAL GRADE OF BACKFILL IN DEMOLITION AREAS SHALL BE COMPACTED PER THE GEOTECHNICAL REPORT TO PRESENT A NEAT, WELL DRAINED APPEARANCE, AND TO PREVENT WATER FROM DRAINING UNNECESSARILY ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION SWALES OR OTHER MEANS OF MAINTAINING ADEQUATE SITE DRAINAGE.
  - CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
  - CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
  - ALL EXISTING SANITARY SEWERS, STORM SEWERS, WATER MAINS OR IRRIGATION LINES AND APPURTENANCES NOTED FOR REMOVAL WITHIN THE AREA OF THE PROPOSED CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. ALL ABANDONED SEWER LINES SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG NON-SHRINK CONCRETE MORTAR PLUGS AND FILLED WITH FLOWABLE FILL.
  - SEE GENERAL NOTES AND SPECIFICATIONS SHEETS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

EXISTING CONDITIONS AND DEMOLITION PLAN		5/17/22	Date
1203 LAKEVIEW DRIVE		4/22/22	
ML REALTY		4/15/22	
ROMEIOVILLE, ILLINOIS		4/15/22	
3 REVISED PER VILLAGE			
2 PERMIT SET			
1 CLIENT REVIEW			
No.	Description		
D108b			
1" = 40'			
C2			

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 1335 Butterfield Rd, Suite 300, Downers Grove, IL 60515  
 PHONE: (630) 652-4600, FAX: (630) 652-4601  
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**PAVEMENT HATCH LEGEND:**

- ASPHALT PAVEMENT  
2" HMA SURFACE COURSE, MIX D, N50  
2-1/4" HMA BINDER COURSE, IL-19.0, N50  
8" CA-6 CRUSHED STONE  
COMPACTED SUBGRADE, 95% MODIFIED PROCTOR
- HEAVY DUTY ASPHALT PAVEMENT (FIRE LANE)  
2" HMA SURFACE COURSE, MIX D, N50  
3" HMA BINDER COURSE, IL 19.0, N50  
10" CA-6 CRUSHED STONE  
COMPACTED SUBGRADE, 95% MODIFIED PROCTOR
- HEAVY DUTY ASPHALT PAVEMENT  
2" HMA SURFACE COURSE, MIX D, N50  
5-1/2" HMA BINDER COURSE, IL 19.0, N50  
10" CA-6 CRUSHED STONE  
COMPACTED SUBGRADE, 95% MODIFIED PROCTOR
- CONCRETE DRIVEWAY PAVEMENT  
8" PORTLAND CEMENT CONCRETE  
4,000 PSI, A/E  
4" CA-6 CRUSHED STONE  
COMPACTED SUBGRADE, 95% MODIFIED PROCTOR
- HEAVY DUTY CONCRETE PAVEMENT  
7" PORTLAND CEMENT CONCRETE  
4,000 PSI, A/E  
4" CA-6 CRUSHED STONE  
COMPACTED SUBGRADE, 95% MODIFIED PROCTOR
- CONCRETE SIDEWALK  
6" PORTLAND CEMENT CONCRETE  
4,000 PSI, A/E  
4" CA-6 CRUSHED STONE  
COMPACTED SUBGRADE, 95% MODIFIED PROCTOR
- LAKEVIEW DRIVE ASPHALT PAVEMENT  
MATCH EXISTING PAVEMENT

**CURB LEGEND:**

- B6.12 CURB AND GUTTER
- REVERSE PITCH B6.12 CURB AND GUTTER
- DEPRESSED CURB AND GUTTER

**NOTE:**  
REFER TO THE PROJECT GEOTECHNICAL ENGINEERING REPORT PREPARED BY TESTING SERVICE CORPORATION DATED OCTOBER 5, 2017 FOR INFORMATION REGARDING THE EXISTING SOIL CONDITIONS AND PROPOSED SUBGRADE PREPARATION REQUIREMENTS.

**GEOMETRIC NOTES:**

1. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR CENTER OF PAVEMENT MARKING UNLESS OTHERWISE NOTED.
2. ALL CURB RADI ARE 4.5' UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL COORDINATE ALL SITE IMPROVEMENTS WITH ARCHITECTURAL PLANS.
4. ALL PROPOSED PAVEMENT MARKINGS SHALL BE 4" UNLESS OTHERWISE NOTED. PAVEMENT MARKINGS SHALL CONFORM TO ARTICLE 1095.02 OF THE I.D.O.T. STANDARD SPECIFICATIONS.
5. CONCRETE JOINT SPACING SHALL CONFORM TO IDOT STANDARDS AND AMERICAN CONCRETE INSTITUTE GUIDELINES.
6. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. BUILDING DIMENSIONS AND DOORWAY LOCATIONS ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS.
8. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
9. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED. SEE LANDSCAPE PLANS FOR PROPOSED TREE AND PLANTING REQUIREMENTS.
10. ADA ACCESSIBLE PARKING STALLS TO BE STRIPED WITH YELLOW PAINT, MANUFACTURED SPECIFICALLY FOR PAVEMENT STRIPING. PREFERRED COLOR FOR NON-ADA ACCESSIBLE PARKING STALLS IS A HIGH QUALITY WHITE PAINT, MANUFACTURED SPECIFICALLY FOR PAVEMENT STRIPING.
11. THREE (3) DRILLED AND GROUTED NO. 5 REINFORCING BARS OR EXPANSION TIE ANCHORS, 5/8" IN DIAMETER, SHALL BE USED TO TIE THE NEW CURB AND GUTTER TO THE EXISTING CURB AND GUTTER ON EACH SIDE.
12. SEE GENERAL NOTES AND SPECIFICATIONS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

**SITE DATA TABLE:**

PROPERTY AREA:	8.24 ACRES
IMPERVIOUS AREA: (76%)	6.30 ACRES
PERVIOUS AREA: (24%)	1.94 ACRES
PROPOSED BUILDING AREA:	141,180 SQ. FT. (FAR=39.33%)
TOTAL CAR PARKING PROVIDED:	174 STALLS
STANDARD PARKING:	168 STALLS
HANDICAP ACCESSIBLE PARKING:	6 STALLS
PROPOSED DOCKS:	25 DOCKS
TRAILER PARKING PROVIDED:	10 STALLS

**PROPOSED BUILDING**  
141,180 S.F.  
FFE=666.00

**DIMENSIONAL CONTROL AND PAVING PLAN**

1203 LAKEVIEW DRIVE

ML REALTY

ROMEIOVILLE, ILLINOIS

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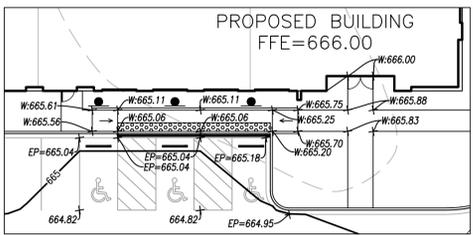
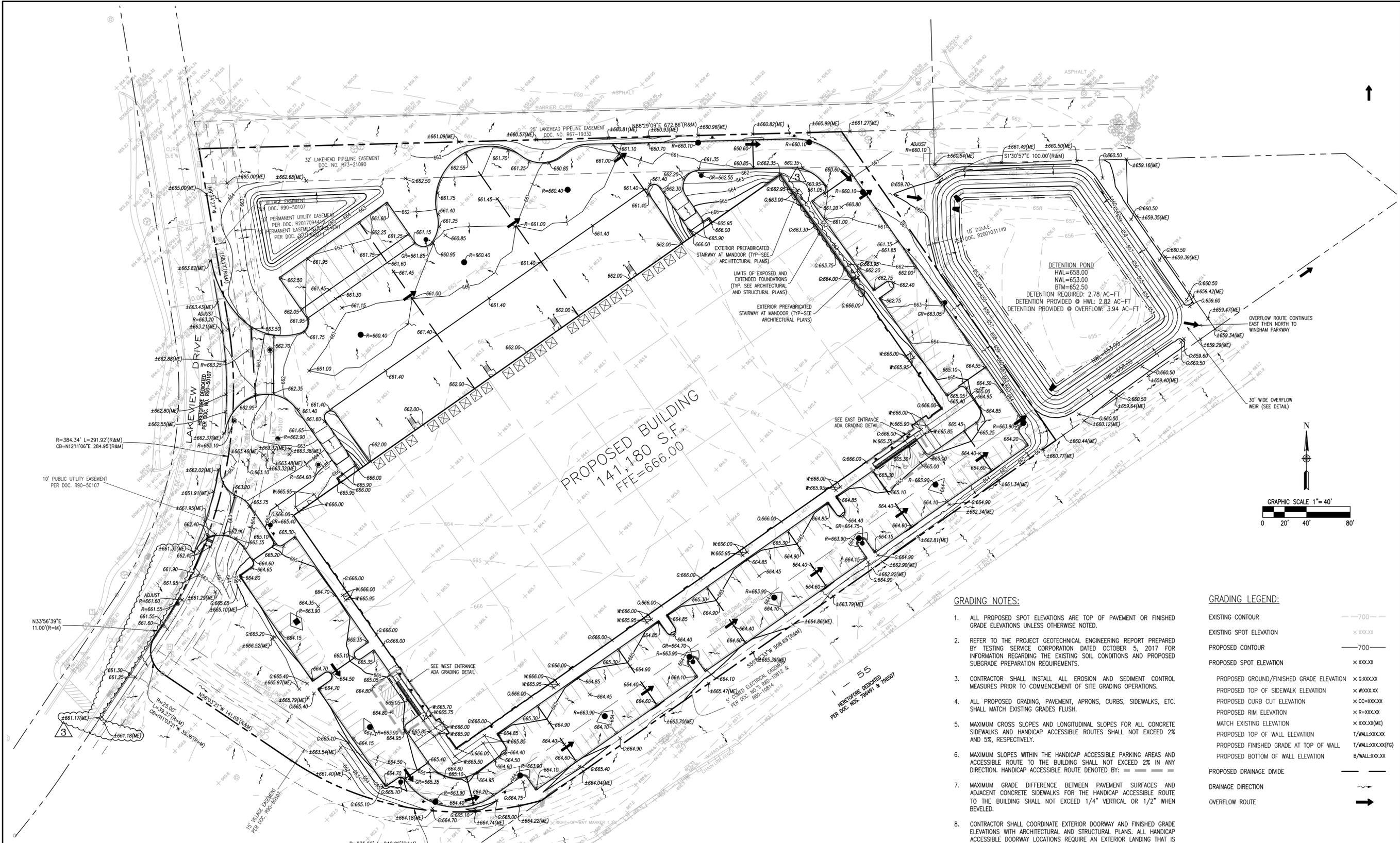


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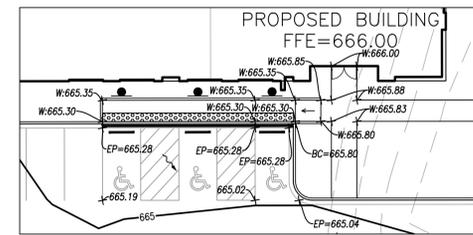
1" = 40'

C3

No.	Description	Date
3	REVISED PER VILLAGE	5/17/22
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WEST ENTRANCE ADA GRADING DETAIL  
1"=20'



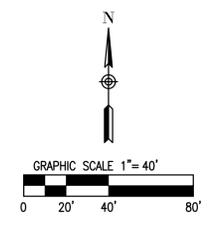
EAST ENTRANCE ADA GRADING DETAIL  
1"=20'

**GRADING NOTES:**

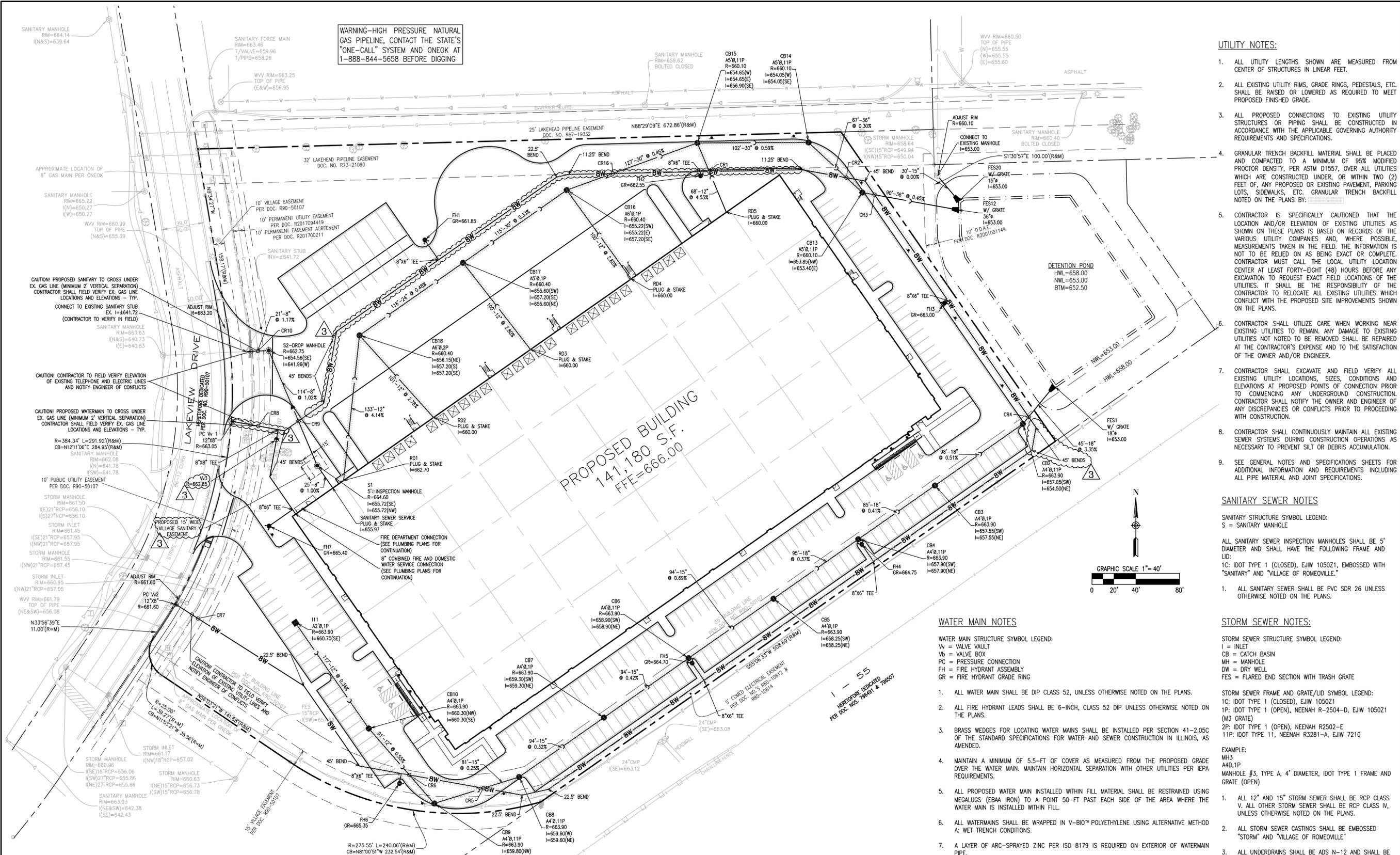
- ALL PROPOSED SPOT ELEVATIONS ARE TOP OF PAVEMENT OR FINISHED GRADE ELEVATIONS UNLESS OTHERWISE NOTED.
- REFER TO THE PROJECT GEOTECHNICAL ENGINEERING REPORT PREPARED BY TESTING SERVICE CORPORATION DATED OCTOBER 5, 2017 FOR INFORMATION REGARDING THE EXISTING SOIL CONDITIONS AND PROPOSED SUBGRADE PREPARATION REQUIREMENTS.
- CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF SITE GRADING OPERATIONS.
- ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, SIDEWALKS, ETC. SHALL MATCH EXISTING GRADES FLUSH.
- MAXIMUM CROSS SLOPES AND LONGITUDINAL SLOPES FOR ALL CONCRETE SIDEWALKS AND HANDICAP ACCESSIBLE ROUTES SHALL NOT EXCEED 2% AND 5%, RESPECTIVELY.
- MAXIMUM SLOPES WITHIN THE HANDICAP ACCESSIBLE PARKING AREAS AND ACCESSIBLE ROUTE TO THE BUILDING SHALL NOT EXCEED 2% IN ANY DIRECTION. HANDICAP ACCESSIBLE ROUTE DENOTED BY: ————
- MAXIMUM GRADE DIFFERENCE BETWEEN PAVEMENT SURFACES AND ADJACENT CONCRETE SIDEWALKS FOR THE HANDICAP ACCESSIBLE ROUTE TO THE BUILDING SHALL NOT EXCEED 1/4" VERTICAL OR 1/2" WHEN BEVELED.
- CONTRACTOR SHALL COORDINATE EXTERIOR DOORWAY AND FINISHED GRADE ELEVATIONS WITH ARCHITECTURAL AND STRUCTURAL PLANS. ALL HANDICAP ACCESSIBLE DOORWAY LOCATIONS REQUIRE AN EXTERIOR LANDING THAT IS A MINIMUM OF FIVE (5) FEET IN LENGTH WITH A SLOPE NOT EXCEEDING 2% IN ANY DIRECTION.
- CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL EXISTING STORM SEWERS WITHIN THE PROJECT AREA DURING CONSTRUCTION OPERATIONS AS NECESSARY TO PREVENT SILT OR DEBRIS ACCUMULATION.
- SEE GENERAL NOTES AND SPECIFICATIONS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

**GRADING LEGEND:**

EXISTING CONTOUR	---
EXISTING SPOT ELEVATION	x xxx.xx
PROPOSED CONTOUR	—700—
PROPOSED SPOT ELEVATION	x xxx.xx
PROPOSED GROUND/FINISHED GRADE ELEVATION	x xxxx.xx
PROPOSED TOP OF SIDEWALK ELEVATION	x xxxxxx
PROPOSED CURB CUT ELEVATION	x cc-xxxx.xx
PROPOSED RIM ELEVATION	x r-xxxx.xx
MATCH EXISTING ELEVATION	x xxx.xx(ME)
PROPOSED TOP OF WALL ELEVATION	t/wall-xxxx.xx
PROPOSED FINISHED GRADE AT TOP OF WALL	t/wall-xxxx.xx(FG)
PROPOSED BOTTOM OF WALL ELEVATION	b/wall-xxxx.xx
PROPOSED DRAINAGE DIVIDE	———
DRAINAGE DIRECTION	→
OVERFLOW ROUTE	→



<p><b>GRADING PLAN</b> <b>1203 LAKEVIEW DRIVE</b> <b>ML REALTY</b> <b>ROMEIOVILLE, ILLINOIS</b></p>	<p><b>JACOB &amp; HEFNER ASSOCIATES</b> 1335 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com</p>												
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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">No.</th> <th style="width: 85%;">Description</th> <th style="width: 10%;">Date</th> </tr> <tr> <td style="text-align: center;">3</td> <td>REVISED PER VILLAGE</td> <td style="text-align: center;">5/17/22</td> </tr> <tr> <td style="text-align: center;">2</td> <td>PERMIT SET</td> <td style="text-align: center;">4/22/22</td> </tr> <tr> <td style="text-align: center;">1</td> <td>CLIENT REVIEW</td> <td style="text-align: center;">4/15/22</td> </tr> </table>	No.	Description	Date	3	REVISED PER VILLAGE	5/17/22	2	PERMIT SET	4/22/22	1	CLIENT REVIEW	4/15/22
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**WARNING-HIGH PRESSURE NATURAL GAS PIPELINE, CONTACT THE STATE'S "ONE-CALL" SYSTEM AND ONEOK AT 1-888-844-5658 BEFORE DIGGING**

- UTILITY NOTES:**
- ALL UTILITY LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURES IN LINEAR FEET.
  - ALL EXISTING UTILITY RIMS, GRADE RINGS, PEDESTALS, ETC. SHALL BE RAISED OR LOWERED AS REQUIRED TO MEET PROPOSED FINISHED GRADE.
  - ALL PROPOSED CONNECTIONS TO EXISTING UTILITY STRUCTURES OR PIPING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE GOVERNING AUTHORITY REQUIREMENTS AND SPECIFICATIONS.
  - GRANULAR TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY, PER ASTM D1557, OVER ALL UTILITIES WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS, SIDEWALKS, ETC. GRANULAR TRENCH BACKFILL NOTED ON THE PLANS BY: \_\_\_\_\_
  - CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED SITE IMPROVEMENTS SHOWN ON THE PLANS.
  - CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
  - CONTRACTOR SHALL EXCAVATE AND FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO COMMENCING ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
  - CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL EXISTING SEWER SYSTEMS DURING CONSTRUCTION OPERATIONS AS NECESSARY TO PREVENT SILT OR DEBRIS ACCUMULATION.
  - SEE GENERAL NOTES AND SPECIFICATIONS SHEETS FOR ADDITIONAL INFORMATION AND REQUIREMENTS INCLUDING ALL PIPE MATERIAL AND JOINT SPECIFICATIONS.

- SANITARY SEWER NOTES**
- SANITARY STRUCTURE SYMBOL LEGEND:  
S = SANITARY MANHOLE
- ALL SANITARY SEWER INSPECTION MANHOLES SHALL BE 5' DIAMETER AND SHALL HAVE THE FOLLOWING FRAME AND LID:  
1C: IDOT TYPE 1 (CLOSED), EJM 105021, EMBOSSED WITH "SANITARY" AND "VILLAGE OF ROMEOVILLE."  
1P: IDOT TYPE 1 (OPEN), NEENAH R-2504-D, EJM 105021 (M3 GRATE)  
2P: IDOT TYPE 1 (OPEN), NEENAH R2502-E  
11P: IDOT TYPE 11, NEENAH R3281-A, EJM 7210
1. ALL SANITARY SEWER SHALL BE PVC SDR 26 UNLESS OTHERWISE NOTED ON THE PLANS.
- STORM SEWER NOTES:**
- STORM SEWER STRUCTURE SYMBOL LEGEND:  
I = INLET  
CB = CATCH BASIN  
MH = MANHOLE  
DW = DRY WELL  
FES = FLARED END SECTION WITH TRASH GRATE
- STORM SEWER FRAME AND GRATE/LID SYMBOL LEGEND:  
1C: IDOT TYPE 1 (CLOSED), EJM 105021  
1P: IDOT TYPE 1 (OPEN), NEENAH R-2504-D, EJM 105021 (M3 GRATE)  
2P: IDOT TYPE 1 (OPEN), NEENAH R2502-E  
11P: IDOT TYPE 11, NEENAH R3281-A, EJM 7210
- EXAMPLE:  
MH3  
A4D,1P  
MANHOLE #3, TYPE A, 4' DIAMETER, IDOT TYPE 1 FRAME AND GRATE (OPEN)
- ALL 12" AND 15" STORM SEWER SHALL BE RCP CLASS V, ALL OTHER STORM SEWER SHALL BE RCP CLASS IV, UNLESS OTHERWISE NOTED ON THE PLANS.
  - ALL STORM SEWER CASTINGS SHALL BE EMBOSSED "STORM" AND "VILLAGE OF ROMEOVILLE"
  - ALL UNDERDRAINS SHALL BE ADS N-12 AND SHALL BE CAPPED AT THE UPSTREAM END. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS TO MATCH THE PIPE ROUTING SHOWN ON THE PLANS.

- WATER MAIN NOTES**
- WATER MAIN STRUCTURE SYMBOL LEGEND:  
Vv = VALVE VAULT  
Vb = VALVE BOX  
PC = PRESSURE CONNECTION  
FH = FIRE HYDRANT ASSEMBLY  
GR = FIRE HYDRANT GRADE RING
- ALL WATER MAIN SHALL BE DIP CLASS 52, UNLESS OTHERWISE NOTED ON THE PLANS.
  - ALL FIRE HYDRANT LEADS SHALL BE 6-INCH, CLASS 52 DIP UNLESS OTHERWISE NOTED ON THE PLANS.
  - BRASS WEDGES FOR LOCATING WATER MAINS SHALL BE INSTALLED PER SECTION 41-2.05C OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, AS AMENDED.
  - MAINTAIN A MINIMUM OF 5.5'-FT OF COVER AS MEASURED FROM THE PROPOSED GRADE OVER THE WATER MAIN. MAINTAIN HORIZONTAL SEPARATION WITH OTHER UTILITIES PER IEPA REQUIREMENTS.
  - ALL PROPOSED WATER MAIN INSTALLED WITHIN FILL MATERIAL SHALL BE RESTRAINED USING MEGALUGS (EBAA IRON) TO A POINT 50-FT PAST EACH SIDE OF THE AREA WHERE THE WATER MAIN IS INSTALLED WITHIN FILL.
  - ALL WATERMANS SHALL BE WRAPPED IN V-BIO™ POLYETHYLENE USING ALTERNATIVE METHOD A: WET TRENCH CONDITIONS.
  - A LAYER OF ARC-SPRAYED ZINC PER ISO 8179 IS REQUIRED ON EXTERIOR OF WATERMAIN PIPE.
  - ALL JOINTS MUST BE RESTRAINED WITH MEGALUGS (EBAA IRON) ONLY (NO CONCRETE THRUST BLOCKS).

**WATERMAIN RESTRAINED LENGTHS (FT)**

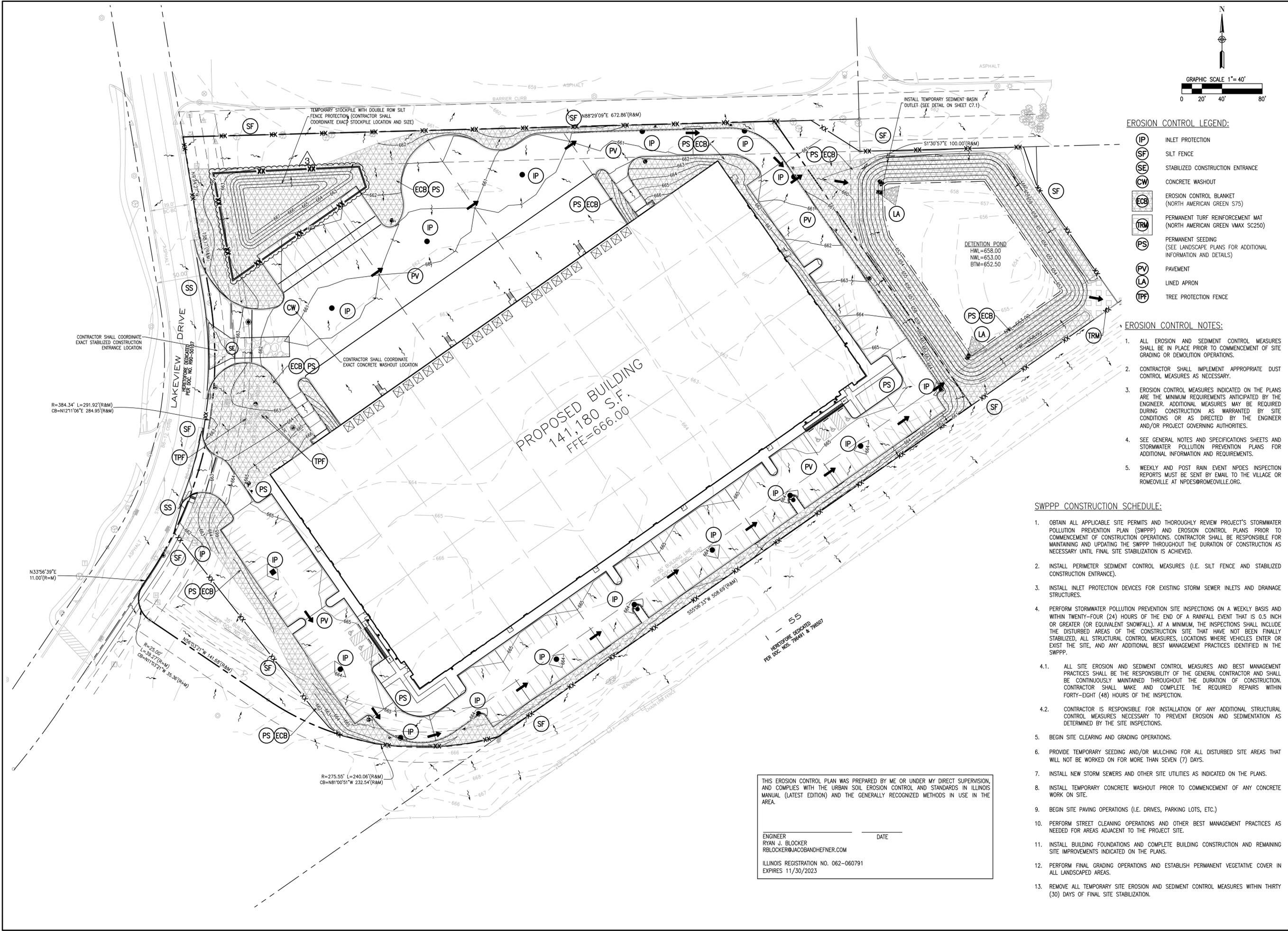
PIPE DIAMETER	FITTING TYPE				
	DEAD END	90° BEND	45° BEND	22.5° BEND	TEE
6"	21'	10'	5'	2'	1'
8"	28'	14'	6'	3'	1'
10"	34'	16'	7'	4'	1'
12"	40'	19'	8'	4'	1'

- NOTES:**
- RESTRAINED LENGTHS PER EBAA RESTRAINT LENGTH CALCULATOR AND LOCAL SOIL CONDITIONS.
  - ALL JOINTS WITHIN THE CALCULATED LENGTH MUST BE RESTRAINED.
  - IF THE DISTANCE BETWEEN FITTINGS IS LESS THAN OR EQUAL TO THE CALCULATED RESTRAINT LENGTH, ALL JOINTS BETWEEN THOSE FITTINGS SHALL BE RESTRAINED.
  - RESTRAINED LENGTHS ARE FROM DEAD END, OR THE BRANCH OF A TEE, OR ON BOTH SIDES OF BENDS.

**UTILITY CROSSINGS**

- CR1: BOTTOM OF 12" STORM = 658.0' ±  
TOP OF 8" WATERMAIN = 656.3' ±  
VERTICAL SEPARATION = 1.7'
- CR2: BOTTOM OF 36" STORM = 653.6' ±  
LOWER TOP OF 8" WATERMAIN = 652.1' ±  
VERTICAL SEPARATION = 1.5'
- CR3: BOTTOM OF 36" STORM = 653.0' ±  
LOWER TOP OF 8" WATER = 651.5' ±  
VERTICAL SEPARATION = 1.5'
- CR4: BOTTOM OF 18" STORM = 654.0' ±  
LOWER TOP OF 8" WATER = 652.5' ±  
VERTICAL SEPARATION = 1.5'
- CR5: BOTTOM OF 15" STORM = 659.5' ±  
LOWER TOP OF 8" WATERMAIN = 658.0' ±  
VERTICAL SEPARATION = 1.5'
- CR6: BOTTOM OF 12" STORM = 659.8' ±  
LOWER TOP OF 8" WATERMAIN = 658.3' ±  
VERTICAL SEPARATION = 1.5'
- CR7: BOTTOM OF 8" GAS = 656.0' ±  
LOWER TOP OF 8" WATERMAIN = 654.0' ±  
VERTICAL SEPARATION = 2.0'
- CR8: BOTTOM OF 8" GAS = 657.5' ±  
LOWER TOP OF 8" WATERMAIN = 655.5' ±  
VERTICAL SEPARATION = 2.0'
- CR9: BOTTOM OF 8" SANITARY = 655.3' ±  
LOWER TOP OF 8" WATERMAIN = 653.7' ±  
VERTICAL SEPARATION = 1.5'
- CR10: BOTTOM OF 8" GAS = 657.7' ±  
TOP OF 8" SANITARY = 642.5' ±  
VERTICAL SEPARATION = 15.2'
- CR11: REMOVED
- CR12: REMOVED
- CR13: REMOVED
- CR14: REMOVED
- CR15: REMOVED
- CR16: BOTTOM OF 30" STORM = 654.7' ±  
LOWER TOP OF 8" WATERMAIN = 653.2' ±  
VERTICAL SEPARATION = 1.5'

5/17/22	REVISION PER VILLAGE	DATE
4/22/22	PERMIT SET	DATE
4/15/22	CLIENT REVIEW	DATE
		DESCRIPTION
<b>UTILITY PLAN</b>		
<b>1203 LAKEVIEW DRIVE</b>		
<b>ML REALTY</b>		
<b>ROMEOVILLE, ILLINOIS</b>		
<b>JACOB &amp; HEFNER ASSOCIATES</b>		
1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515		
PHONE: (630) 652-4600, FAX: (630) 652-4601		
www.jacobandhefner.com		
<b>D108b</b>		
<b>1" = 40'</b>		
<b>C5</b>		



- EROSION CONTROL LEGEND:**
- IP INLET PROTECTION
  - SF SILT FENCE
  - SE STABILIZED CONSTRUCTION ENTRANCE
  - CW CONCRETE WASHOUT
  - ECB EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75)
  - TRM PERMANENT TURF REINFORCEMENT MAT (NORTH AMERICAN GREEN VMAX SC250)
  - PS PERMANENT SEEDING (SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION AND DETAILS)
  - PV PAVEMENT
  - LA LINED APRON
  - TPF TREE PROTECTION FENCE
- EROSION CONTROL NOTES:**
1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF SITE GRADING OR DEMOLITION OPERATIONS.
  2. CONTRACTOR SHALL IMPLEMENT APPROPRIATE DUST CONTROL MEASURES AS NECESSARY.
  3. EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS ANTICIPATED BY THE ENGINEER. ADDITIONAL MEASURES MAY BE REQUIRED DURING CONSTRUCTION AS WARRANTED BY SITE CONDITIONS OR AS DIRECTED BY THE ENGINEER AND/OR PROJECT GOVERNING AUTHORITIES.
  4. SEE GENERAL NOTES AND SPECIFICATIONS SHEETS AND STORMWATER POLLUTION PREVENTION PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
  5. WEEKLY AND POST RAIN EVENT NPDES INSPECTION REPORTS MUST BE SENT BY EMAIL TO THE VILLAGE OR ROMEOVILLE AT NPDES@ROMEOVILLE.ORG.

- SWPPP CONSTRUCTION SCHEDULE:**
1. OBTAIN ALL APPLICABLE SITE PERMITS AND THOROUGHLY REVIEW PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND EROSION CONTROL PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP THROUGHOUT THE DURATION OF CONSTRUCTION AS NECESSARY UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
  2. INSTALL PERIMETER SEDIMENT CONTROL MEASURES (I.E. SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE).
  3. INSTALL INLET PROTECTION DEVICES FOR EXISTING STORM SEWER INLETS AND DRAINAGE STRUCTURES.
  4. PERFORM STORMWATER POLLUTION PREVENTION SITE INSPECTIONS ON A WEEKLY BASIS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). AT A MINIMUM, THE INSPECTIONS SHALL INCLUDE THE DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, ALL STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIST THE SITE, AND ANY ADDITIONAL BEST MANAGEMENT PRACTICES IDENTIFIED IN THE SWPPP.
    - 4.1. ALL SITE EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE CONTINUOUSLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL MAKE AND COMPLETE THE REQUIRED REPAIRS WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION.
    - 4.2. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL STRUCTURAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE SITE INSPECTIONS.
  5. BEGIN SITE CLEARING AND GRADING OPERATIONS.
  6. PROVIDE TEMPORARY SEEDING AND/OR MULCHING FOR ALL DISTURBED SITE AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN SEVEN (7) DAYS.
  7. INSTALL NEW STORM SEWERS AND OTHER SITE UTILITIES AS INDICATED ON THE PLANS.
  8. INSTALL TEMPORARY CONCRETE WASHOUT PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK ON SITE.
  9. BEGIN SITE PAVING OPERATIONS (I.E. DRIVES, PARKING LOTS, ETC.)
  10. PERFORM STREET CLEANING OPERATIONS AND OTHER BEST MANAGEMENT PRACTICES AS NEEDED FOR AREAS ADJACENT TO THE PROJECT SITE.
  11. INSTALL BUILDING FOUNDATIONS AND COMPLETE BUILDING CONSTRUCTION AND REMAINING SITE IMPROVEMENTS INDICATED ON THE PLANS.
  12. PERFORM FINAL GRADING OPERATIONS AND ESTABLISH PERMANENT VEGETATIVE COVER IN ALL LANDSCAPED AREAS.
  13. REMOVE ALL TEMPORARY SITE EROSION AND SEDIMENT CONTROL MEASURES WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION.

THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA.

ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 RYAN J. BLOCKER  
 RBLOCKER@JACOBANDHEFNER.COM  
 ILLINOIS REGISTRATION NO. 062-060791  
 EXPIRES 11/30/2023

EROSION CONTROL PLAN		5/17/22	Date
1203 LAKEVIEW DRIVE		3 REVISED PER VILLAGE	4/22/22
ML REALTY		2 PERMIT SET	4/15/22
ROMEOVILLE, ILLINOIS		1 CLIENT REVIEW	4/15/22
		No.	Description
<p><b>JACOB &amp; HEFNER ASSOCIATES</b>                  1335 Butterfield Rd, Suite 300, Downers Grove, IL 60515                  PHONE: (630) 652-4600, FAX: (630) 652-4601                  www.jacobandhefner.com</p>		<p><b>D108b</b>                  1" = 40'                  C6</p>	

CONTROL MEASURE GROUP	CONTROL MEASURE	APPLICABLE	SYMBOL	CONTROL MEASURE CHARACTERISTICS	TEMPORARY	PERMANENT	REQUIRED MAINTENANCE
VEGETATIVE SOIL COVER	TEMPORARY SEEDING		TS	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X		RESEED ANY FAILING AREAS
	PERMANENT SEEDING	X	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION AND FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		X	RESEED ANY FAILING AREAS
	DORMANT SEEDING		DS	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.	X	X	RESEED AS NEEDED
	SODDING		SO	QUICK PERMANENT VEGETATIVE COVER USED TO CONTROL EROSION AND ESTABLISH VEGETATIVE FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGE WAYS OR OTHER AREAS WHERE SEEDING MAY BE DIFFICULT.	X	X	N/A
NON VEGETATIVE SOIL COVER	MACHINE TRACKING		CC	PROVIDES SOIL ROUGHING TO PREVENT EROSION		X	N/A
	POLYMER		P	USED AS ADDED INSURANCE IN CONJUNCTION WITH TEMPORARY OR PERMANENT SEEDING. PROVIDES TEMPORARY COVER WHERE VEGETATION CANNOT BE ESTABLISHED	X	X	REAPPLY EVERY 1-1/2 MONTHS
	AGGREGATE COVER		AC	PROVIDES SOIL COVER ON ROADS, PARKING LOTS AND OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	X	X	CLEAN DIRT AND SEDIMENT FROM STONE AS NEEDED
DIVERSIONS	PAVING	X	PV	PROVIDES PERMANENT COVER ON ROADS, PARKING LOTS AND OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED		X	N/A
	RIDGE DIVERSION		RD	TYPICALLY USED ABOVE SLOPES TO COLLECT RUNOFF AND TRANSFER DOWNSTREAM	X	X	CLEAN OUT SILT WHEN HALF FULL
	CHANNEL DIVERSION		CD	TYPICALLY USED TO DIVERT RUNOFF TO PREVENT EROSION	X	X	REPLACE PROTECTION AS NEEDED
	COMBINATION DIVERSION		DC	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF A CHANNEL IS USED TO BUILD THE RIDGE	X	X	REPLACE PROTECTION AS NEEDED
	CURB AND GUTTER		CG	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A ROAD TO DIVERT RUNOFF FROM AN AREA NEEDING EROSION PROTECTION	X	X	N/A
	BENCHES		B	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND PROVIDE SLOPE STABILITY	X	X	N/A
	VEGETATIVE CHANNEL		VC	PROVIDES ADDITIONAL STABILITY TO CHANNEL AND USED WITH RELATIVELY LOW FLOW VELOCITIES	X	X	REDO ANY FAILING AREAS
WATERWAYS	LINED CHANNEL		LC	USED WHEN VEGETATION IS INADEQUATE TO PROTECT A CHANNEL FROM HIGH FLOW VELOCITIES OR WHERE VEGETATION CANNOT BE ESTABLISHED	X	X	REPLACE PROTECTION AS NEEDED
	ENCLOSED DRAINAGE						
ENCLOSED DRAINAGE	STORM SEWER	X	STM	CAN BE USED TO CONVEY SEDIMENT LADEN RUNOFF TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY	X	X	CLEAN OUT SEDIMENT AS NEEDED
	UNDER DRAIN	X	UD	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DRAINER SEDIMENT BASINS.	X	X	N/A
SPILLWAYS	STRAIGHT PIPE SPILLWAY		SPS	USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER		X	CLEAN OUT CONSTRUCTION DEBRIS AS NEEDED
	DROP INLET PIPE SPILLWAY		DIS	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED		X	CLEAN OUT CONSTRUCTION DEBRIS AS NEEDED
	WEIR SPILLWAY		W	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS IN EXCESS OF THE STORM SEWER SYSTEM	X	X	CLEAN OUT CONSTRUCTION DEBRIS AS NEEDED
	BOX INLET WEIR SPILLWAY		BS	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED DUE TO LOWER WEIR LENGTH	X	X	CLEAN OUT CONSTRUCTION DEBRIS AS NEEDED
OUTLETS	LINED APRON	X	LA	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM FLARED END SECTIONS OR OTHER OUTLET STRUCTURES	X	X	REPAIR DISLODGED STONES AND EROSION UNDER RIP-RAP AS NEEDED
	SEDIMENT BASINS						
SEDIMENT BASINS	SEDIMENT BASIN	X	SB	USED TO COLLECT SMALLER PARTICLES AND TO DETAIN WATER WITH A CONTROLLED RELEASE	X	X	CLEAN OUT SEDIMENT WHEN HALF FULL
	SEDIMENT TRAP		ST	USED TO COLLECT LARGER PARTICLES AND TO DETAIN WATER WITH A CONTROLLED RELEASE	X	X	CLEAN OUT SEDIMENT WHEN HALF FULL
SEDIMENT FILTERS	SILT FENCE	X	SF	USED TO FILTER SEDIMENT FROM RUNOFF	X	X	CLEAN OUT SEDIMENT WHEN HALF FULL AND REPAIR AS NEEDED
	VEGETATIVE FILTER		VF	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF	X	X	REDO ANY FAILING AREAS
MUD AND DUST CONTROL	STABILIZED CONSTRUCTION ENTRANCE	X	SE	PREVENTS MUD AND SEDIMENT FROM BEING PICKED UP AND CARRIED OFF-SITE	X	X	SCRAPE MUD AND REPLACE STONE AS NEEDED
	DUST CONTROL	X	DT	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE	X	X	REAPPLY AS NEEDED
EROSION CONTROL	EROSION CONTROL BLANKET	X	ECB	PROTECTS SOIL, PREVENTS SEED WASHOUT AND HELPS GROW VEGETATION	X	X	REPLACE AS NEEDED
	TURF REINFORCEMENT MAT		TRM	REINFORCES TURF IN CHANNELS, SHORELINES AND HIGH FLOW AREAS		X	REPLACE AS NEEDED
	CELLULAR CONFINEMENT		CF	USED FOR SOIL STABILIZATION	X	X	REPLACE AS NEEDED
	GABIONS		GA	USED TO PREVENT EROSION IN HIGH FLOW AREAS	X	X	REPLACE AS NEEDED
	GEOTEXTILE FABRIC		GF	USED FOR EROSION AND SEDIMENT CONTROL, SOIL SEPARATION AND SOIL STABILIZATION	X	X	REPLACE AS NEEDED
	GEOBLOCK POROUS PAVEMENT		PP	USED FOR FIRE LANE ACCESS OR VEGETATIVE PAVEMENT	X	X	REPLACE AS NEEDED
	SEDIMENT CONTROL						
SEDIMENT CONTROL	INLET PROTECTION	X	IP	USED TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM	X	X	REPLACE OR CLEAN WHEN CLOGGED
	SLOPE INTERRUPT		SI	USED TO BREAK UP RUNOFF FLOW ON A SLOPE	X	X	CLEAN OUT SEDIMENT WHEN HALF FULL
	DITCH CHECK		DC	USED FOR SEDIMENT FLOW CONTROL IN SWALES AND CHANNELS	X	X	CLEAN OUT SEDIMENT WHEN HALF FULL
	FLOC LOG		FL	USED TO CLARIFY WATER THAT HAS SEDIMENT IN THE WATER COLUMN	X	X	REPLACE WHEN HALF DISSOLVED
	SILT CURTAIN		SC	USED FOR SEDIMENT CONTROL IN STREAMS, PONDS, ETC.	X	X	REPLACE WHEN FABRIC IS TORN OR HOLES BEGIN TO FORM
	PUMPING DISCHARGE BAG		PB	USED FOR PUMP DISCHARGE LINES	X	X	REPLACE WHEN HALF FULL. FABRIC IS TORN OR HOLES BEGIN TO FORM
	CONCRETE WASHOUT	X	CW	USED TO WASH OUT CONCRETE TRUCKS	X	X	CLEAN OUT WHEN HALF FULL AND CLEAN WASHOUT GRAVEL AREA AS NEEDED
	STREET SWEEPING	X	SS	USED TO PREVENT SILT BUILD UP IN STREETS	X	X	CLEAN ONCE A WEEK OR AS NEEDED TO KEEP STREET CLEAN

EROSION CONTROL SCHEDULE	
PHASE	START DATE
INITIAL SILT FENCE INSTALLATION	6/1/22
SITE CLEARING AND GRADING (3 WEEKS)	6/1/22
STORM DRAINAGE INSTALLATION	6/21/22
INLET FILTER INSTALLATION	6/21/22
PAVEMENT INSTALLATION	8/1/22
LANDSCAPING	9/1/22
REMOVAL OF EROSION CONTROL	10/1/22

**SWPPP NOTES:**

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, WHICH AUTHORIZES STORMWATER DISCHARGES RESULTING FROM CONSTRUCTION SITE ACTIVITIES AND THE SOIL EROSION AND SEDIMENT CONTROL ORDINANCES AND REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITIES.

- SITE DESCRIPTION**

A. THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED CONSTRUCTION ACTIVITIES THAT ARE THE SUBJECT OF THIS PLAN:

THE SITE IMPROVEMENTS ASSOCIATED WITH THE PROPOSED INDUSTRIAL DEVELOPMENT WILL INCLUDE THE FOLLOWING: DEMOLITION, MASS GRADING, PAVEMENT CONSTRUCTION, INSTALLATION OF UTILITIES INCLUDING STORM SEWERS, SANITARY SEWERS AND WATERMAIN AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.

B. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE, SUCH AS GRUBBING, EXCAVATION, AND GRADING:

THE SEQUENCE OF THE CONSTRUCTION ACTIVITIES MAY BE AS FOLLOWS: 1) INSTALL PERIMETER CONTROLS INCLUDING SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE, 2) SITE DEMOLITION, 3) MASS GRADING, 4) UNDERGROUND UTILITIES INSTALLATION, 5) BUILDING FOUNDATIONS, 6) FINE GRADING IN PAVEMENT AREAS AND 7) PAVEMENT AND BUILDING CONSTRUCTION. THE SOIL EROSION AND SEDIMENTATION CONTROL ITEMS WILL BE CONSTRUCTED AND MAINTAINED AS NEEDED DURING THE ABOVE CONSTRUCTION ACTIVITIES.

C. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 0.02 ACRES.

THE TOTAL AREA OF THE SITE THAT IS ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER CONSTRUCTION ACTIVITIES IS 0.02 ACRES.

D. THE ESTIMATED RUNOFF COEFFICIENTS OF THE VARIOUS AREAS OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED ARE CONTAINED IN THE PROJECT DRAINAGE STUDY, TITLED "STORMWATER MANAGEMENT REPORT FOR 1203 LAKEVIEW DRIVE," AS PREPARED BY JACOB & HEFNER ASSOCIATES, INC. WHICH IS HEREBY INCORPORATED BY REFERENCE IN THIS PLAN.

THE ESTIMATED PROPOSED OVERALL SITE RUNOFF COEFFICIENT IS 0.89.

E. EXISTING DATA DESCRIBING SOILS OR QUALITY OF DISCHARGE (SEE SOILS REPORT IF AVAILABLE) POOR/FAIR/GOOD/NOT AVAILABLE: GOOD

F. NAME OF RECEIVING WATER(S): VILLAGE OF ROMEOVILLE STORM SEWER  
NAME OF ULTIMATE RECEIVING WATER(S): DES PLAINES RIVER

G. EXISTING AREAS EXHIBITING WETLAND CHARACTERISTICS: 0 ACRES
- CONTROLS**

THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN 1.B ABOVE. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. EACH SUCH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH ARE ATTACHED TO, AND ARE A PART OF, THIS PLAN.

A. EROSION AND SEDIMENT CONTROLS

(i) STABILIZATION PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE-SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.

WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.

THE FOLLOWING INTERIM AND PERMANENT STABILIZATION PRACTICES, AS A MINIMUM, WILL BE IMPLEMENTED TO STABILIZE THE DISTURBED AREA OF THE SITE:

  - PERMANENT SEEDING
  - SILT FENCE
  - VEGETATIVE FILTER
  - STABILIZED CONSTRUCTION ENTRANCE
  - BARRIER FILTER

(ii) STRUCTURAL PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

  - DETENTION/RETENTION POND(S)
  - STORM SEWER SYSTEM
  - RIP-RAP OUTLET PROTECTION
  - PERMANENT SEEDING

(iii) DUST CONTROL: DUST CONTROL SHALL BE PROVIDED PER STANDARD 825 OF ILLINOIS URBAN MANUAL. THE FOLLOWING DUST CONTROL METHODS CAN BE USED:

  - IRRIGATION
  - SPRAY ON ADHESIVE
  - VEGETATIVE COVER
  - MULCHING
- STORMWATER MANAGEMENT**

(i) PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORMWATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF THE TECHNICAL GUIDANCE CONTAINED IN EPA'S STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL, AND OTHER ORDINANCES LISTED IN THE SPECIFICATIONS.

THE STORMWATER POLLUTANT CONTROL MEASURES SHALL INCLUDE:

  - SILT FENCE
  - BARRIER FILTERS
  - STORM SEWER SYSTEM
  - DETENTION/RETENTION POND(S)

(ii) VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G., MAINTENANCE OF HYDROLOGIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES).

STORMWATER MANAGEMENT CONTROL INCLUDES:

  - RIP-RAP FOR OUTLET PROTECTION
  - DITCH CHECKS
- OTHER CONTROLS**

(i) WASTE DISPOSAL: THE SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIALS, MACHINERY, TOOLS AND OTHER ITEMS WILL BE COLLECTED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ACQUIRE ANY PERMIT REQUIRED FOR SUCH DISPOSAL. BURNING ON THE SITE WILL NOT BE PERMITTED. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

(ii) THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

ANY AND ALL SANITARY SEWAGE SHALL BE DISCHARGED TO THE EXISTING AND/OR PROPOSED SANITARY SEWER SYSTEM CONSTRUCTED PER ILLINOIS AND LOCAL STANDARDS.
- APPROVED STATE OR LOCAL PLANS**

(i) THE MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS CONTAINED IN THIS PLAN ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL DATED OCTOBER 1987, ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION PLAN, AND THE MUNICIPAL SUBDIVISION ORDINANCE, REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION CONTROL SITE PLANS, STORMWATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI, TO BE AUTHORIZED TO DISCHARGE UNDER THIS PERMIT, INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

**3. MAINTENANCE**

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND THE STANDARD SPECIFICATIONS.

- STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. THIS WILL BE DONE BY TOP DRESSING WITH ADDITIONAL STONES, REMOVING AND REPLACING TOP LAYER OF STONES OR WASHING THE ENTRANCE. THE SEDIMENT WASHED ON THE PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY.
- VEGETATIVE EROSION CONTROL MEASURES: THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTER, ETC. SHALL BE MAINTAINED PERIODICALLY AND SUPPLIED WITH ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEED AS NECESSARY.
- SEDIMENTATION BASINS/TRAPS: SEDIMENT SHALL BE REMOVED WHEN 40-50 PERCENT OF THE TOTAL ORIGINAL CAPACITY OF THE SEDIMENT BASIN/TRAP IS FILLED WITH SEDIMENT. IN NO CASE SHALL THE SEDIMENT BE BUILT UP TO MORE THAN 1 FOOT BELOW THE CREST ELEVATION. AT THIS STAGE, THE BASIN SHALL BE CLEANED OUT TO RESTORE ITS ORIGINAL VOLUME.
- SILT FENCE: THE DAMAGED SILT FENCE SHALL BE RESTORED TO MEET THE STANDARDS OR REMOVED AND REPLACED AS NEEDED.
- STRAW BALE BARRIER FILTERS: THE STRAW BALE BARRIER FILTER SHALL BE INSPECTED FREQUENTLY AND SHALL BE REPAIRED OR REMOVED AND REPLACED AS NEEDED.
- RIP-RAP OUTLET PROTECTION: RIP-RAP OUTLET PROTECTION SHALL BE INSPECTED AFTER HIGH FLOWS FOR ANY SCOUR BENEATH THE RIP-RAP OR FOR STONES THAT HAVE BEEN DISLODGED. IT SHALL BE REPAIRED IMMEDIATELY AS NEEDED.

**4. INSPECTIONS**

- THE OWNER OR OWNER'S REPRESENTATIVE SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.
- BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION 1 ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION 2 ABOVE SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTIONS SHALL BE IMPLEMENTED WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.
- A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORMWATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4.B. SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G OF THE GENERAL NPDES PERMIT.
- IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL COMPLETE AND FILE AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI. G OF THE GENERAL NPDES PERMIT. THE REPORT OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ALL PACKAGES:  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF WATER POLLUTION CONTROL  
ATTN: COMPLIANCE ASSURANCE SECTION  
1024 NORTH GRAND AVENUE, EAST  
SPRINGFIELD, IL 62794

ALL LETTERS:  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF WATER POLLUTION CONTROL  
ATTN: COMPLIANCE ASSURANCE SECTION  
POST OFFICE BOX 19276  
SPRINGFIELD, IL 62794-9276

**5. NON-STORMWATER DISCHARGE**

- EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORMWATER THAT MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY ADDRESSED IN THIS PLAN ARE DESCRIBED BELOW:
- WATER MAIN FLUSHING
  - FIRE HYDRANT FLUSHING
  - WATERING FOR DUST CONTROL
  - IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH FOR SEEDING, ETC.
- THE FIRE HYDRANT AND WATER MAIN SHALL NOT BE FLUSHED DIRECTLY ONTO ANY EXPOSED PAVEMENT AREA OR SUBGRADE. HOSES SHALL BE USED TO DIRECT THE FLOW INTO THE STORM SEWER SYSTEM.

**STORMWATER POLLUTION PREVENTION CONSTRUCTION AND MAINTENANCE SCHEDULE**

EROSION/SEDIMENT CONTROL MEASURE	INSTALLATION SEQUENCE	MAINTENANCE FREQUENCY
TEMPORARY DIVERSION SWALE AND SILT TRAPS	PRIOR TO CLEARING AND GRADING	AS NEEDED
STONE STABILIZED CONSTRUCTION ENTRANCE	PRIOR TO CLEARING AND GRADING	AS NEEDED
SILT FENCE	PRIOR TO CLEARING AND GRADING	WEEKLY, AFTER STORM EVENTS AND AS NEEDED
EXISTING INLET PROTECTION	PRIOR TO CLEARING AND GRADING	WEEKLY, AFTER STORM EVENTS AND AS NEEDED
TREE PROTECTION	PRIOR TO CLEARING AND GRADING	WEEKLY, AFTER STORM EVENTS AND AS NEEDED
TEMPORARY DIVERSIONS	ALONG WITH ROUGH GRADING	WEEKLY, AFTER STORM EVENTS AND AS NEEDED
TEMPORARY SEEDING	AFTER ROUGH GRADING	WATER AS NEEDED
PERMANENT SEEDING, SOD, LANDSCAPING	AFTER FINISH GRADING	WATER AS NEEDED
EROSION CONTROL MATTING	AFTER FINISH GRADING	WEEKLY, AFTER STORM EVENTS AND AS NEEDED
INLET PROTECTION	AFTER EACH INLET IS CONSTRUCTED	WEEKLY, AFTER STORM EVENTS AND AS NEEDED
REMOVAL OF EROSION/SEDIMENT CONTROL MEASURES	AFTER ALL DISTURBED AREAS ARE STABILIZED	N/A

**SEEDING CHART**

STABILIZATION TYPE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A			*	*					
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C				D					
SODDING			E **									
MULCHING	F											

- |  |                                     |  |
|--|-------------------------------------|--|
| A. KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE                            | D. WHEAT OR CEREAL RYE 150 LBS/ACRE | ** IRRIGATION NEEDED DURING JUNE AND JULY                |
| B. KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE | E. SOD                              | ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD |
| C. SPRING OATS 100 LBS/ACRE  | F. STRAW MULCH 2 TONS/ACRE          |  |
|  | G. FERTILIZER 5 LBS/1,000 SF        |  |
|  | H. CALCITIC LIME 40 LBS/1,000 SF    |  |

STORMWATER POLLUTION PREVENTION PLAN

1203 LAKEVIEW DRIVE

ML REALTY

ROMEDEVILLE, ILLINOIS

Date

No.

1 CLIENT REVIEW

4/15/22

2 PERMIT SET

4/22/22

3 REVISED PER VILLAGE

5/17/22

JACOB & HEFNER ASSOCIATES

1335 Butterfield Rd, Suite 300, Downers Grove, IL 60515  
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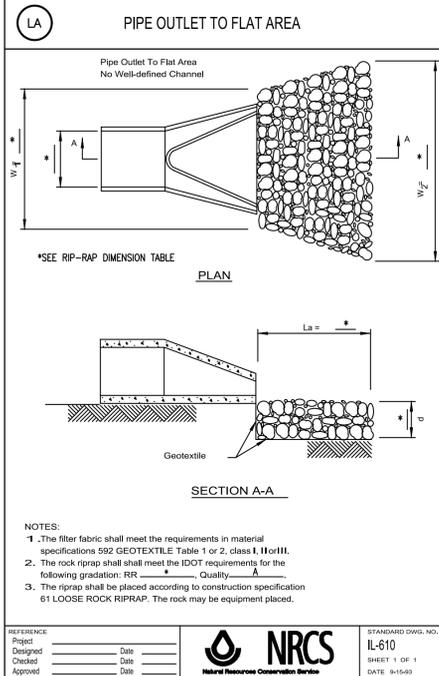
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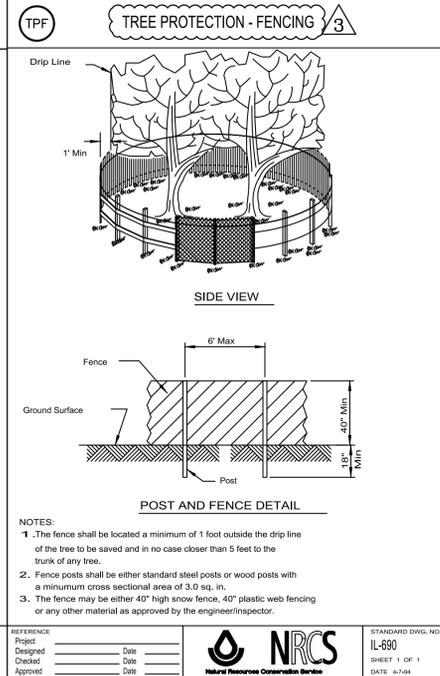
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RIP-RAP DIMENSION TABLE

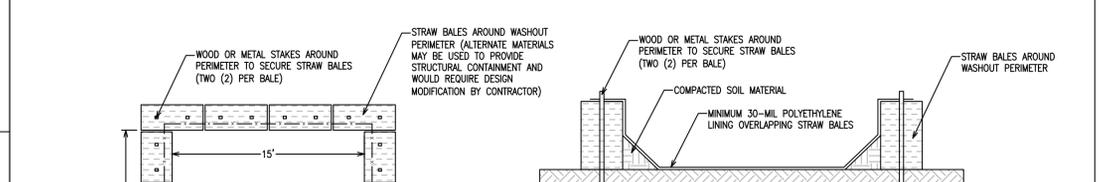
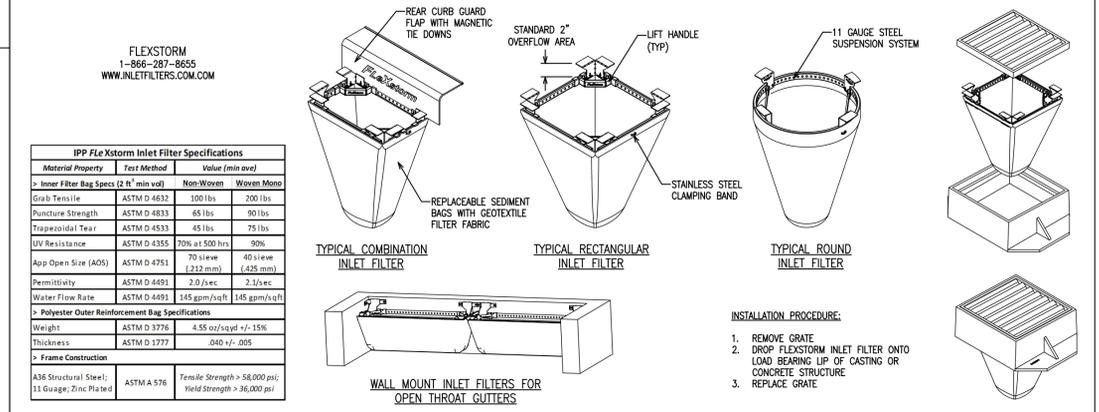
PIPE DIAMETER (IN)	LENGTH OF APRON (FT)	WIDTH OF APRON W1 (FT)	WIDTH OF APRON W2 (FT)	DEPTH OF RIP-RAP d (IN)	IDOT GRADATION RR-	VOLUME OF RIP-RAP (CYD)
12	10	3	13	15	3	3.7
15	10	3.75	13.75	15	3	4.1
18	15	4.5	19.5	20	4	11.1
24	18	6	24	20	4	16.7
30	20	7.5	27.5	20	4	21.6
36	24	9	33	28	5	43.6
42	27	10.5	37.5	30	5	60.0
48	27	12	39	32	6	68.0
54	27	13.5	40.5	32	6	72.0
60	36	15	51	32	6	118.0
72	44	18	62	32	6	174.0



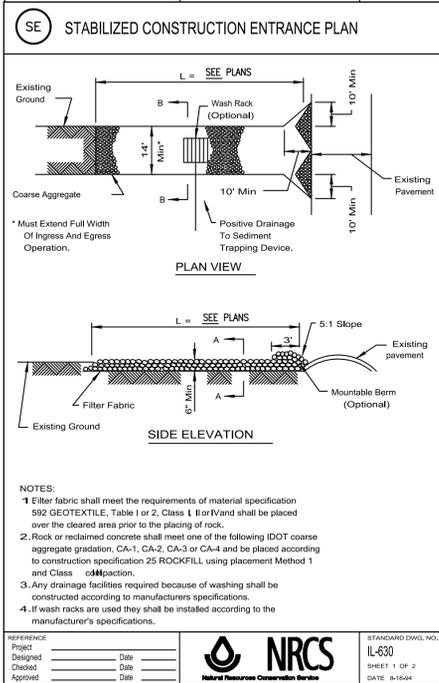
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Designed: _____	Date: _____		SHEET 1 OF 1
Checked: _____	Date: _____		DATE: 01/24/20
Approved: _____	Date: _____		



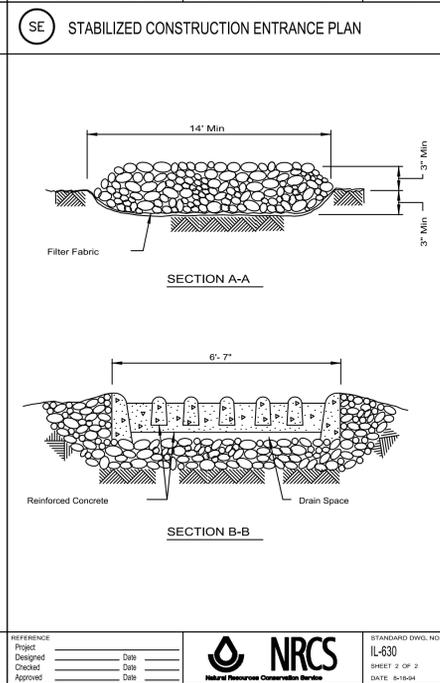
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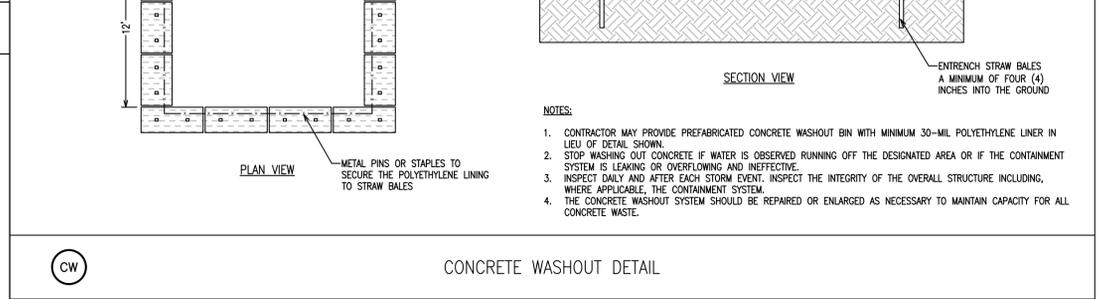
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Approved: _____	Date: _____		



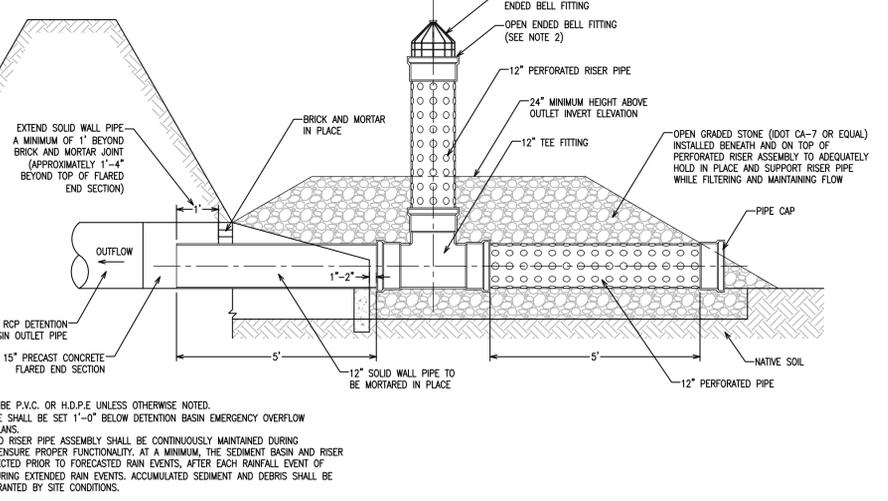
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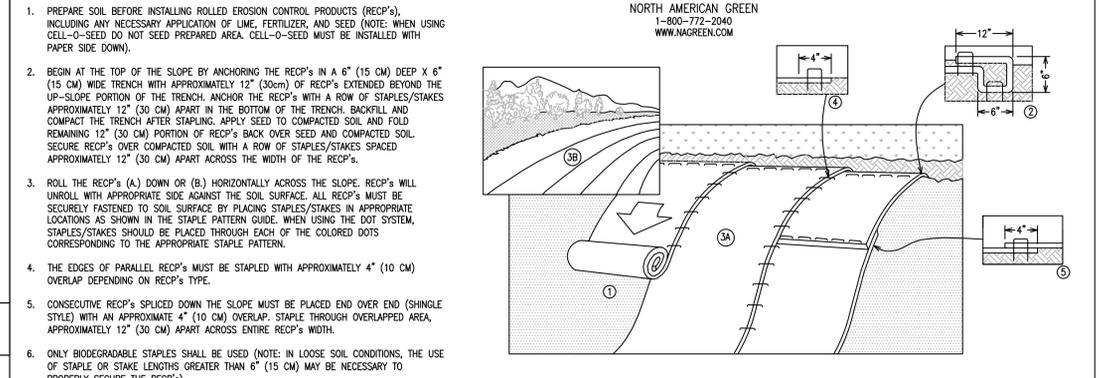
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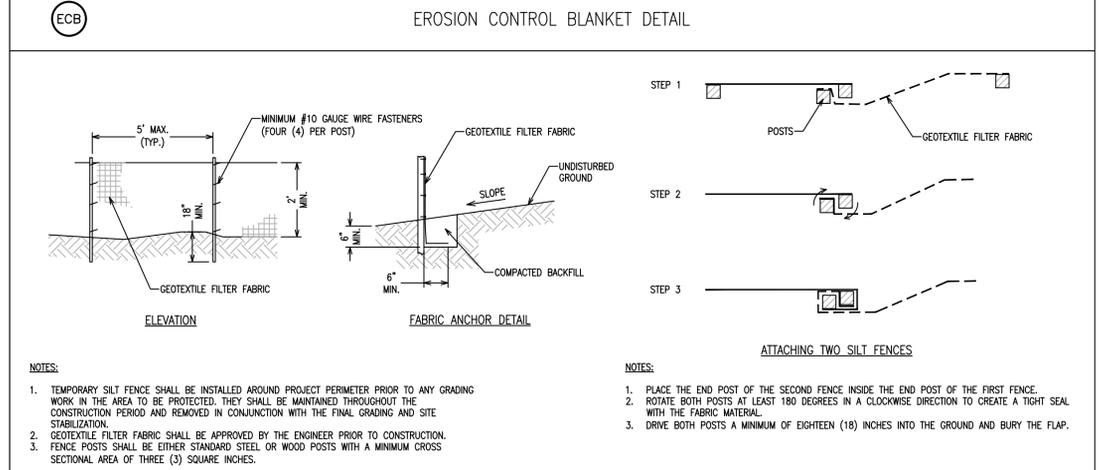
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Approved: _____	Date: _____		



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Approved: _____	Date: _____		



REFERENCE Project: _____	Date: _____		STANDARD DWG. NO. IUM-531
Designed: _____	Date: _____		SHEET 1 OF 1
Checked: _____	Date: _____		DATE: 02-08-11
Approved: _____	Date: _____		



REFERENCE Project: _____	Date: _____		STANDARD DWG. NO. IUM-531
Designed: _____	Date: _____		SHEET 1 OF 1
Checked: _____	Date: _____		DATE: 02-08-11
Approved: _____	Date: _____		

**STORMWATER POLLUTION PREVENTION PLAN**

**1203 LAKEVIEW DRIVE**

**ML REALTY**

**ROMEOVILLE, ILLINOIS**

3 REVISED PER VILLAGE 5/17/22

2 PERMIT SET 4/22/22

1 CLIENT REVIEW 4/15/22

Date

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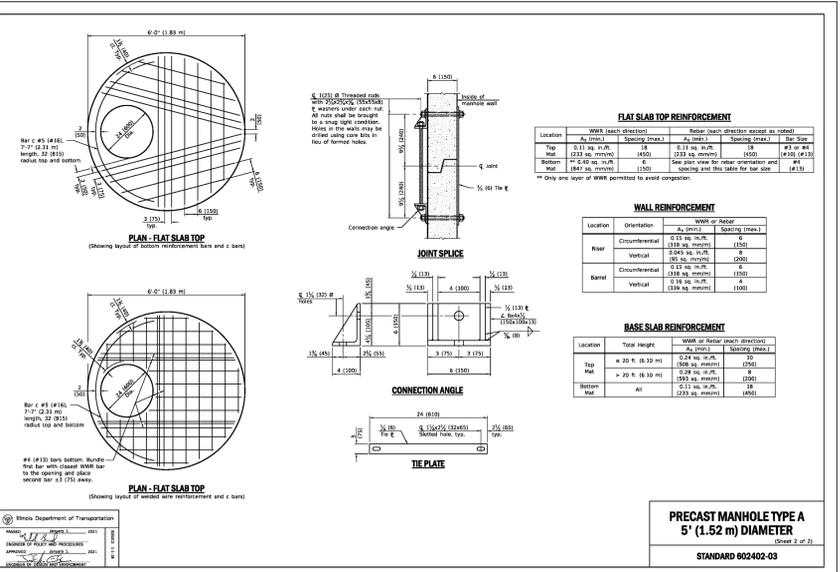
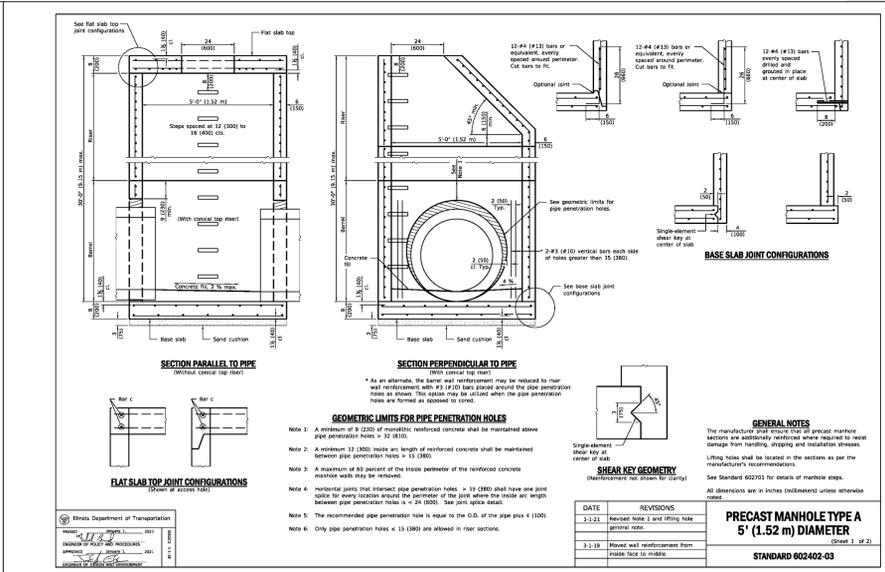
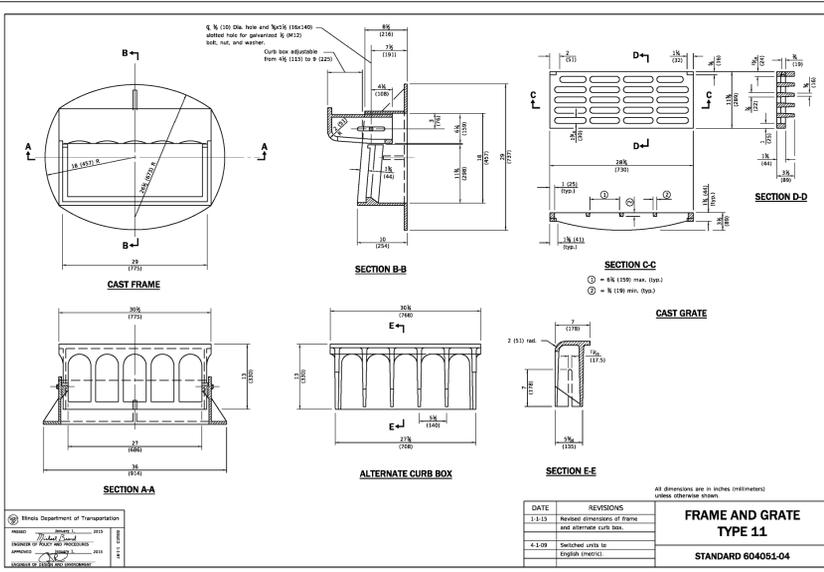
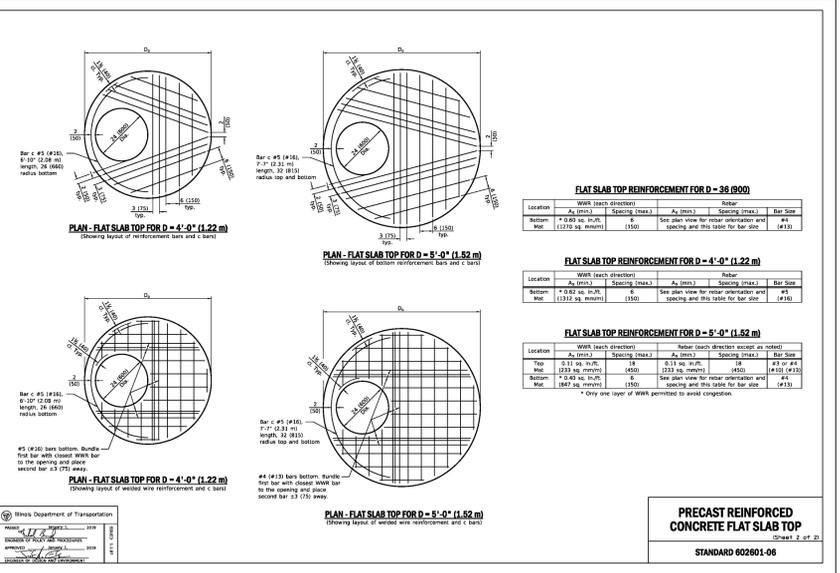
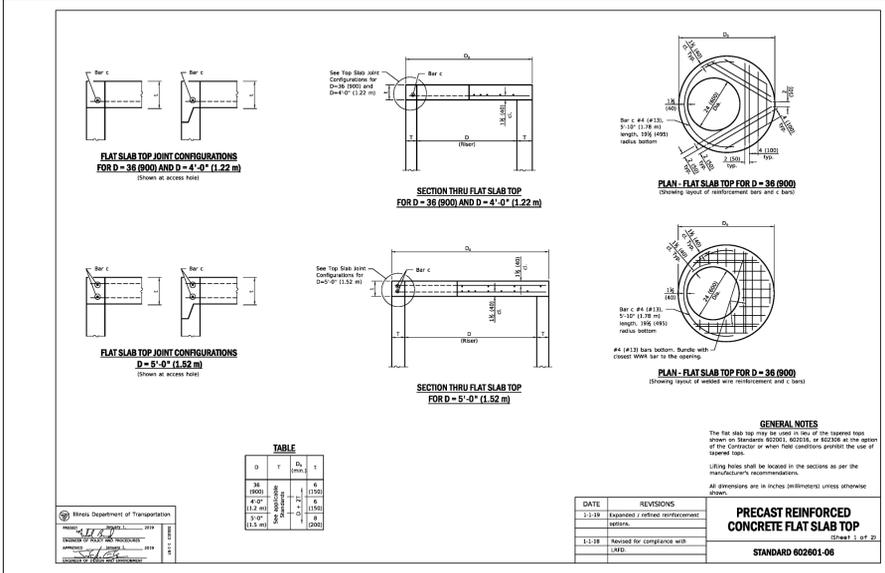
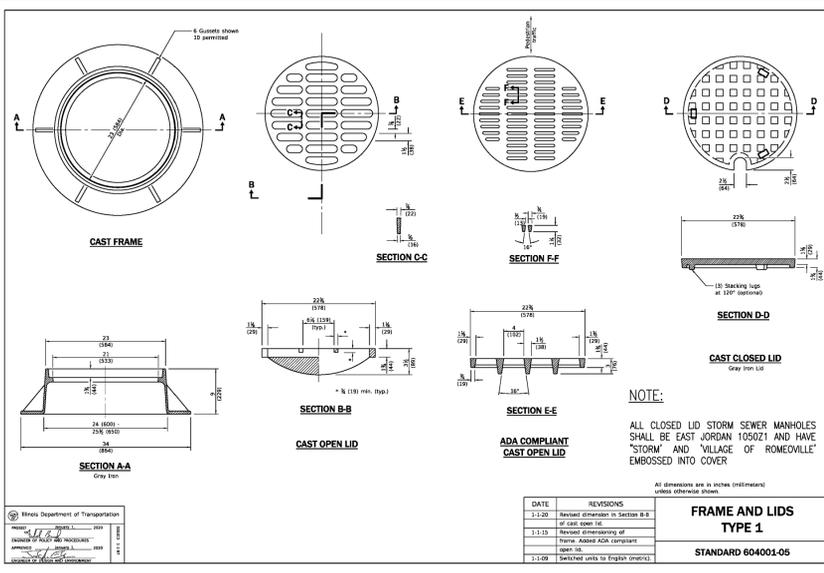
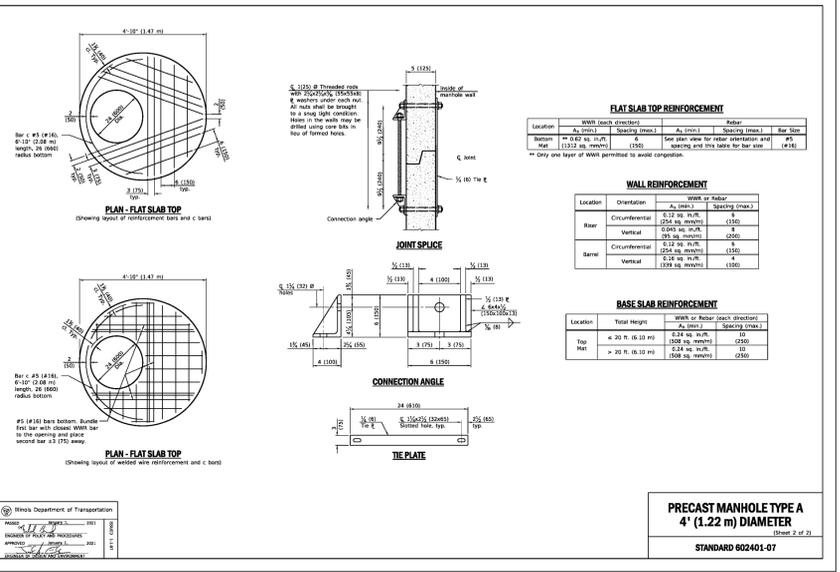
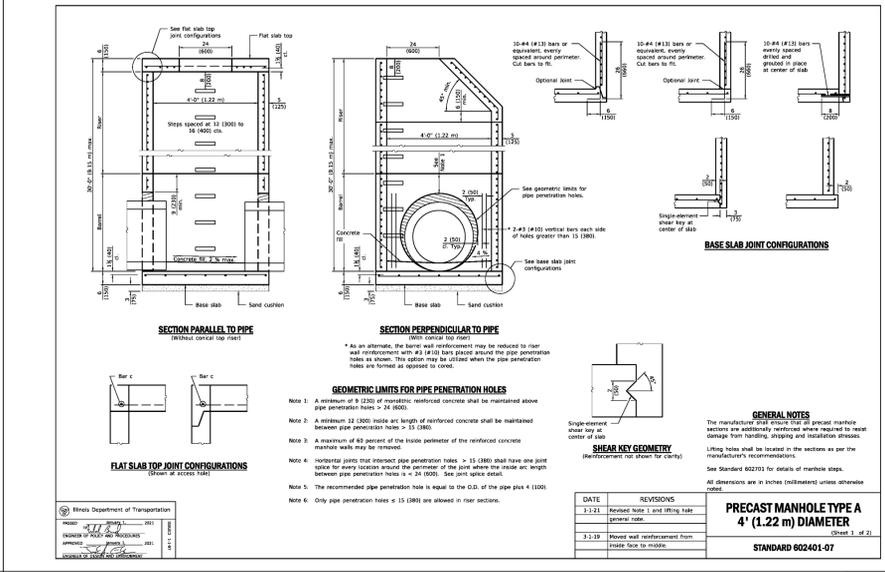
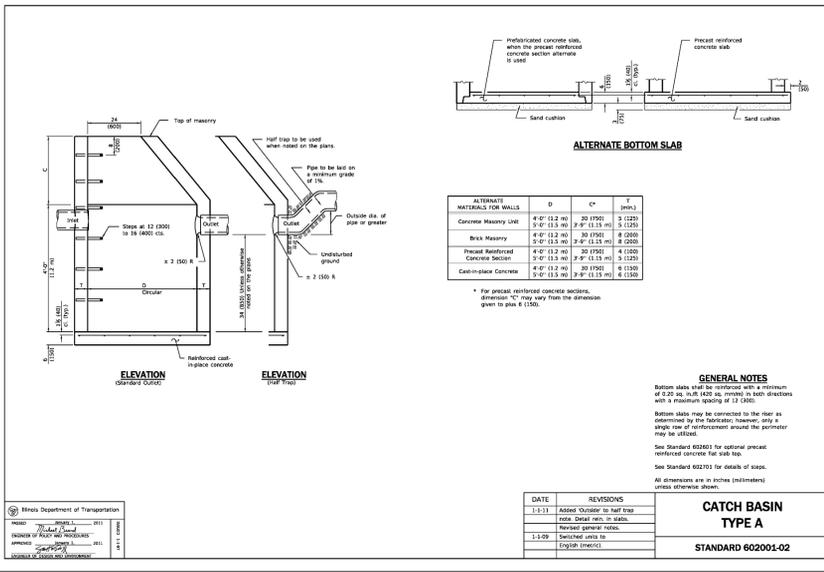
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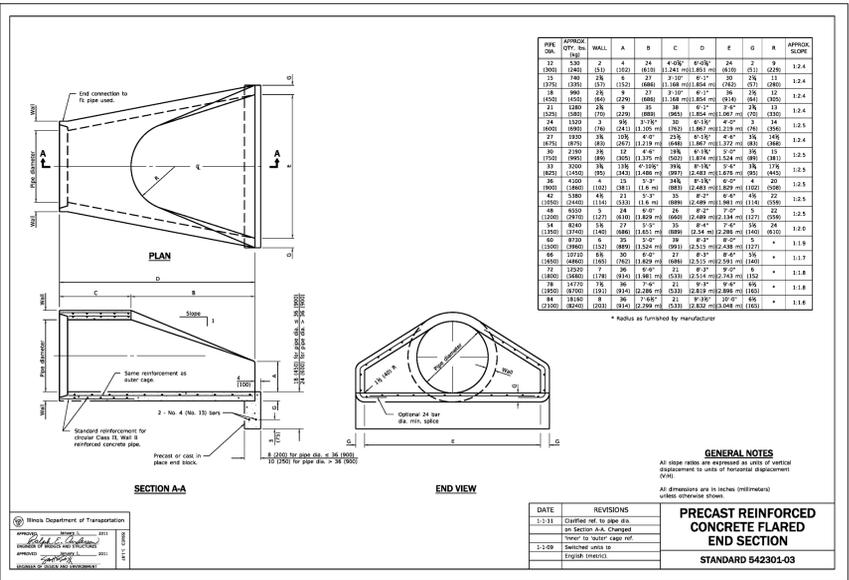
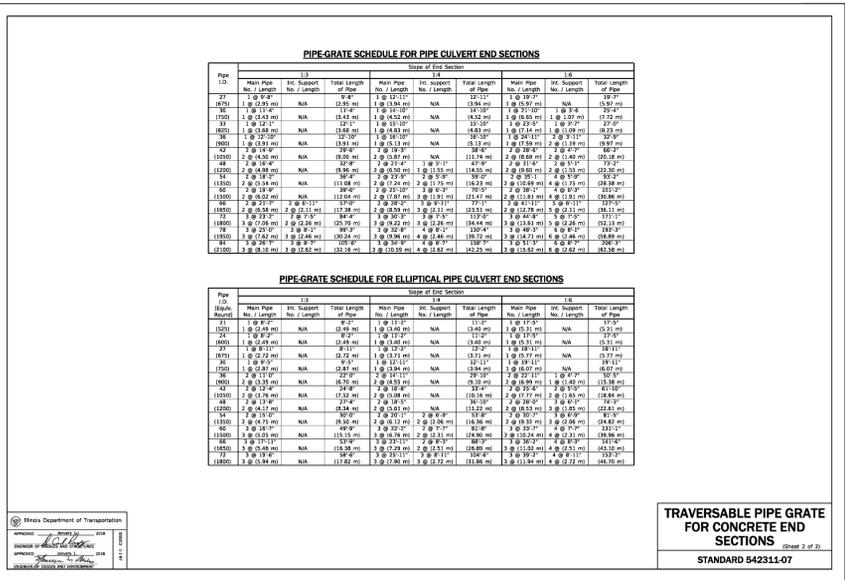
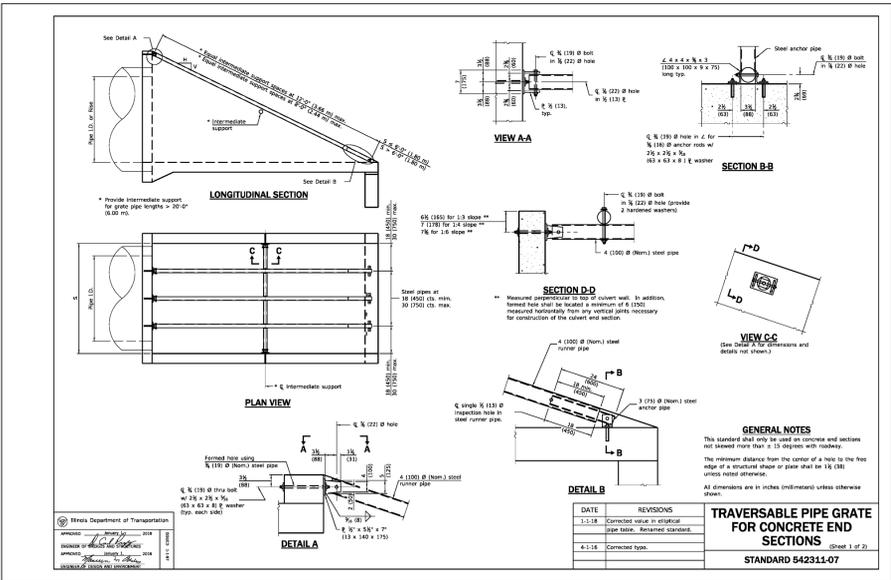
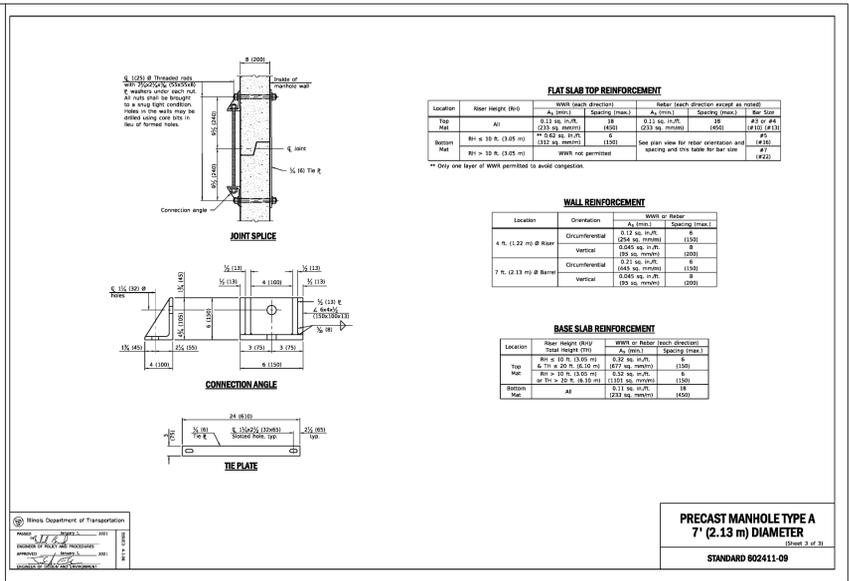
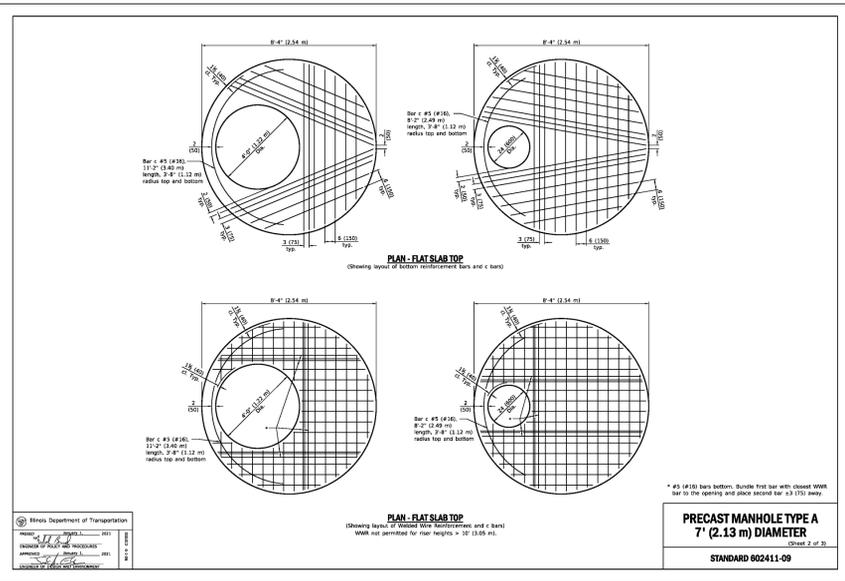
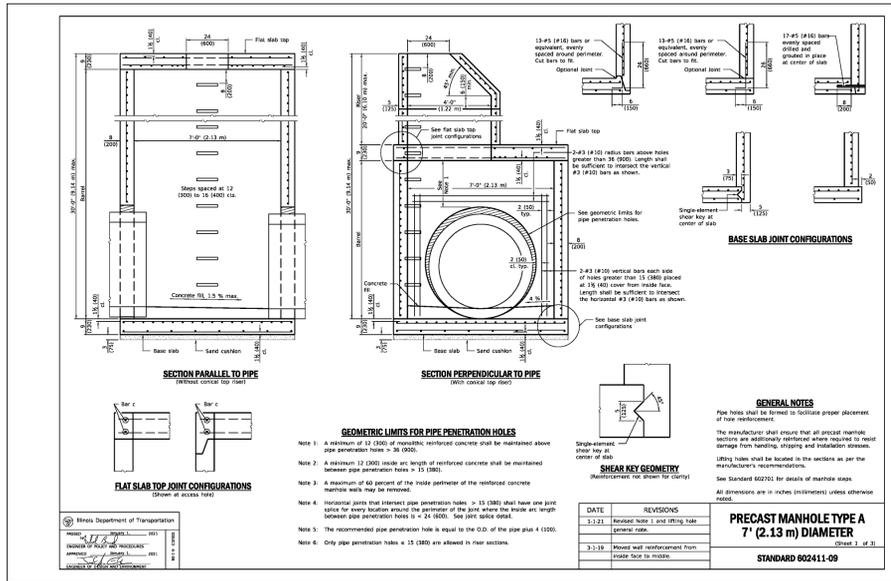
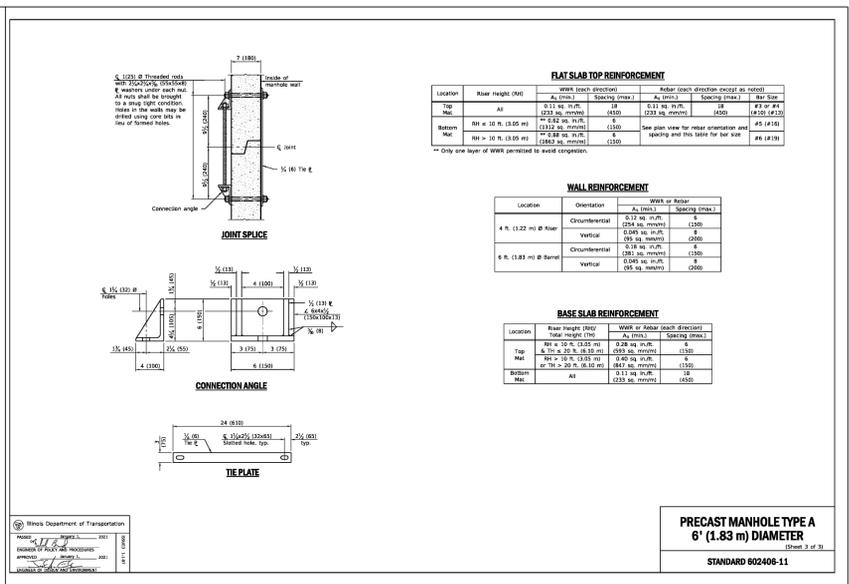
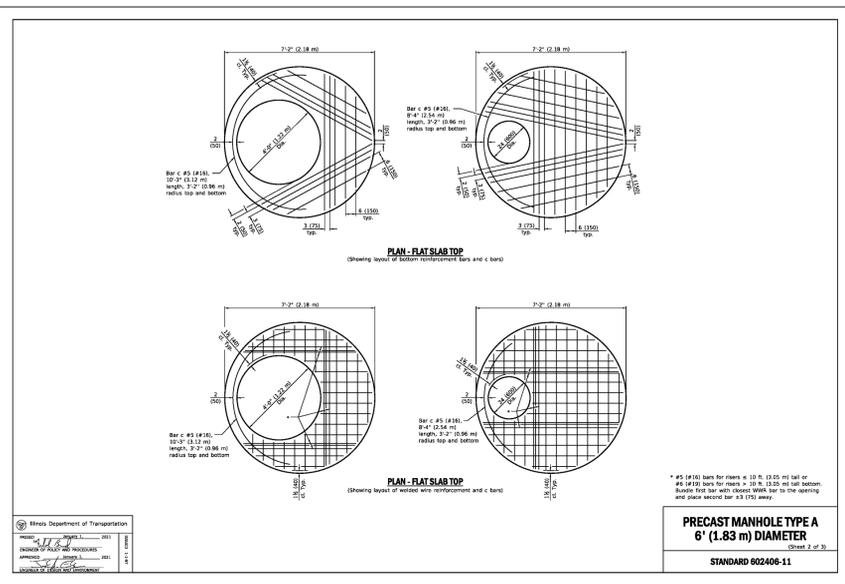
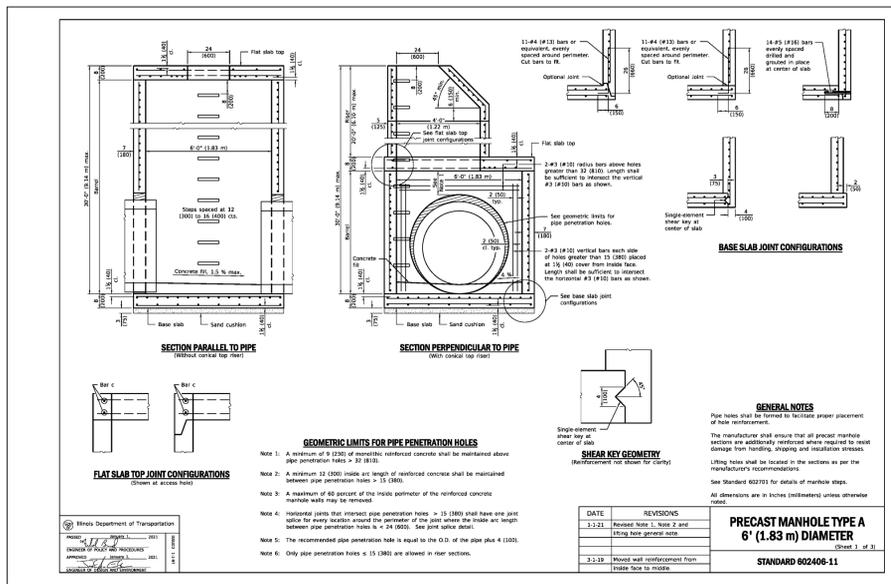
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**GENERAL NOTES**

- ALL PAVING AND RELATED CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION BY ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THEREIN AND IN ACCORDANCE WITH THE LATEST EDITION OF THE SUBDIVISION REGULATIONS OF THE MUNICIPALITY. IN THE EVENT OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- ALL STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND IN ACCORDANCE WITH THE CURRENT SUBDIVISION REGULATIONS OF THE MUNICIPALITY UNLESS OTHERWISE NOTED ON THE PLANS.
- STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL ILL.U.L.I.E. AT 800-892-0123, AND THE MUNICIPALITY FOR UTILITY LOCATIONS.
- NO CONSTRUCTION PLAN SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION." PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAID TO ENGINEER BEFORE DOING ANY WORK. OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- NOTIFICATION OF COMMENCING CONSTRUCTION
  - THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES, EITHER MUNICIPALITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.
  - FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES TO BE UNABLE TO VISIT SITE AND PERFORM TESTING WILL CAUSE CONTRACTOR TO SUSPEND OPERATION (PERTAINING TO TESTING) UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS; COST OF SUSPENSION OF WORK TO BE BORNE BY CONTRACTOR.
- ALL WORKS SHALL BE KEPT ACCESSIBLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC. AT NO TIME SHALL ACCESS BE DENIED TO PROPERTIES SURROUNDING THE SITE.
- ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED, ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET AT CONTRACTOR'S COST.
- ALL FRAMES AND LIDS FOR STORM AND SANITARY SEWER STRUCTURES ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE. THIS ADJUSTING OF FRAMES AND LIDS SHALL BE COMPLETED AND RESET BY THE CONTRACTOR AT HIS OWN EXPENSE. IN INCIDENTAL CASES THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE COUNTY UPON FINAL INSPECTION OF THE PROJECT. FINAL GRADES TO BE DETERMINED BY THE COUNTY AT THE TIME OF FINAL INSPECTION AND MAY VARY FROM PLAN GRADE.
- ANY EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED OTHERWISE SHALL BE REMOVED AND RESET AT HIS OWN EXPENSE AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE. THE LOCATION OF THE OWNER, ANY SIGNS NOT REQUIRED TO BE RESET, SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.
- REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CURBS, ETC., SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. HE IS RESPONSIBLE FOR ANY PERMIT REQUIRED FOR SUCH DISPOSAL.
- ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR PROPERLY RESTORED TO ORIGINAL CONDITION. THE LOCATION OF LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO REPAIR OR REPLACEMENT WILL BE ALLOWED BY THE MUNICIPAL ENGINEER & MUNICIPALITY.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD.
- BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED BY THE OWNER AND MUNICIPALITY.
- UPON AWARDING OF THE CONTRACT AND WHEN REQUIRED BY THE MUNICIPALITY, THE CONTRACTOR SHALL FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND & INSURANCE TO BE SUFFICIENT TO GUARANTEE THE MUNICIPALITY GUARANTEEING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO KNOWN AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITIES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, JACOBS AND HEFNER ASSOCIATES, INC. IS RESPONSIBLE TO RESOLVE THE CONFLICT. JACOBS AND HEFNER ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE PROTECTION OF CONSTRUCTION.
- OWNER SHALL OBTAIN EASEMENTS AND PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS.
- THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORNINGS, EXPLORATIONS AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED WORK.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB IN ACCORDANCE WITH OSHA REGULATIONS.
- THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS, STAKES OR LATH SET BY SUPERVISORS FOR CONSTRUCTION, AND OTHER DEBRIS AND MATERIALS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
- IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADES, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC AND PEDESTRIANS WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITION AND IN CONFORMANCE WITH REGULATIONS OF THE MUNICIPALITY OR DISTRICT SYSTEM.
- NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE COUNTY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE COUNTY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET.
- ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION.
- AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
- TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.
- LAMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.
- ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL CUTS OVER 1" IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS OVER 1" IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.
- ANY DETAHERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED IN SEWER AND WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL (UPON APPROVAL OF THE OWNER AND/OR ENGINEER) OVER-EXCAVATE TO A DEPTH OF AT LEAST ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.
- CONTRACTOR SHALL VIDEO TAKE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.
- TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE ALL UNDERGROUND UTILITIES WITHIN TWO FEET OF PROPOSED OR EXISTING PAVEMENTS, SIDEWALKS, BUILDINGS, AND STRUCTURES. THE TRENCH BACKFILL SHALL BE DONE IN ACCORDANCE WITH DOT STANDARD SPECIFICATIONS. THE TRENCH BACKFILL AND BEDDING MATERIAL SHALL CONSIST OF CRUSHED GRAVEL CONFORMING TO DOT GRADATION CA-7.
- WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE.
- HORNBITS SHALL NOT BE FLUSHED DIRECTLY ON THE ROAD SURFACES. WHEREVER POSSIBLE, HOSES SHALL BE USED TO DIVERT WATER INTO STORM SEWER DRAINAGE TO THE ROAD SURFACE OR LOT AREAS DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM SPRAYING OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM. WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FLUSHING OR USING HYDRANT TO MAKE ALL NECESSARY REPAIRS AT HIS EXPENSE. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION WATER AT HIS EXPENSE.
- AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEER. INLET PROTECTION (INLET BASKETS) SHALL BE INSTALLED IN EACH STRUCTURE AS SOON AS THE STRUCTURE INSTALLATION IS COMPLETE. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION, WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.
- EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ILLINOIS URBAN MANUAL AND SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL A SUITABLE GRADE OF GRASS ACCEPTABLE TO THE ENGINEER HAS BEEN DEVELOPED.
- UPON PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE FINAL RECORD DRAWINGS TO THE OWNER AND ENGINEER FOR REVIEW PRIOR TO ANY REQUEST FOR FINAL INSPECTION. AT A MINIMUM, THE RECORD DRAWINGS SHALL INCLUDE THE FINAL LOCATION AND LAYOUT OF ALL SITE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO VERTICULATION OF ALL BUILDING PAD AND TOP OF FOUNDATION ELEVATIONS, UTILITY RIM AND INVERT ELEVATIONS, SPOT GRADE ELEVATIONS, LOCATIONS OF ALL WATER SERVICE B-SIDES, SANITARY SEWER SERVICES AND STORM SEWER SERVICES AND SHALL INCORPORATE ALL FIELD DESIGN CHANGES APPROVED BY THE OWNER, ENGINEER AND/OR PROJECT GOVERNING AUTHORITY. RECORD DRAWINGS SHALL BE PREPARED BY A LICENSED PROFESSIONAL LAND SURVEYOR.
- THE ENGINEER SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE.

**EARTHWORK**

- TOPSOIL EXCAVATION
  - TOPSOIL, ORGANIC MATERIAL, OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM AREAS REQUIRING STRUCTURAL FILL.
  - PLACEMENT OF EXCAVATED MATERIAL SHALL BE DESIGNATED BY THE OWNER FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED OR AS FILL IN THE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL.
  - EXCESS MATERIALS NOT UTILIZED AS FILL OR NOT STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- EARTH EXCAVATION
  - EXCAVATION OF EARTH AND OTHER MATERIALS, WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL SHALL BE WITHIN A TOLERANCE OF 0.05 FEET FOR PADS AND PAVEMENT, AT 0.1 FEET +/- OF THE PLAN SURFACE ELEVATIONS. THE +/- TOLERANCE WITHIN PAVEMENT AREAS UTILIZING EARTH MATERIALS SHALL "BALANCE" AS PART OF THE FINISH GRADING OPERATION.
  - PLACEMENT OF EARTH AND OTHER SUITABLE MATERIALS SHALL BE PLACED WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL TO ACHIEVE THE PLAN SURFACE ELEVATIONS WITH A TOLERANCE OF 0.1 FEET +/-, THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS, NOT EXCEED EIGHT INCHES IN THICKNESS. THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE THE REQUIRED COMPACTION. EARTH MATERIAL MAY BE PLACED WITHIN THOSE AREAS OF THE SITE NOT REQUIRING STRUCTURAL FILL, WITHIN THE PLAN SURFACE ELEVATION IN THOSE REQUIRING STRUCTURAL FILL. THE EARTH MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS. THE STRUCTURAL SURFACE AREA SHALL EXTEND TO THE ZONE OF INFLUENCE IN ALL FILL AREAS.
  - COMPACTION OF THE EARTH AND OTHER SUITABLE MATERIALS SHALL BE TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR DRY DENSITY. THIS INCLUDES AREAS WITHIN PROPOSED PAVEMENT AND BUILDING PAD LOCATIONS, SIDEWALKS, ETC. IN NON-STRUCTURAL FILL AREAS, 90% TO 95% OF THE MODIFIED PROCTOR DRY DENSITY IS REQUIRED.
- UNSATURABLE MATERIAL
  - UNSATURABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL THAT IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION. IF IT IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SURFACE ELEVATION, IT SHALL BE REMOVED AND REPLACED WITH SELECT GRANULAR MATERIAL APPROVED BY THE SOILS ENGINEER. THE DECISION TO REMOVE SAID MATERIAL AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCUERRE OF THE OWNER.
- THE GRADING CONTRACTORS RESPONSIBILITIES
  - MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN DRAINAGE AREAS.
  - SPREAD AND COMPACT UNIFORMLY ALL EXCESS TRENCH SPOIL, AS SPECIFIED, AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.
  - SCARIFY AND COMPACT THE UPPER 12 INCHES OF THE SUITABLE SUBGRADE MATERIAL, AS SPECIFIED, IN ALL AREAS THAT MAY BE SORT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.
  - PROVIDE ADDITIONAL WATER TO DRY MATERIAL TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
  - BACKFILL THE CURB AND GUTTER AFTER CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL.
  - ACCOUNTABLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS DESCRIBED ON THE PLANS. ALL CONTRACTORS SHALL COMPLY WITH THE SWPPP AND NPDES REQUIREMENTS.
  - PERFORM LIME STABILIZATION OF THE SUBGRADE MATERIAL IF REQUIRED BY THE SOILS ENGINEER.
- TESTING AND FINAL ACCEPTANCE
  - THE CONTRACTOR SHALL PROVIDE, AS A MINIMUM, A TANDUM AXLE TRUCK LOADED TO 14 TONS FOR PROOF ROLLING THE PAVEMENT SUBGRADE. PROOF ROLLING SHALL BE PERFORMED PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND BASE MATERIAL. THIS SHALL BE WITNESSED AND APPROVED BY THE MUNICIPAL ENGINEER AND OWNER.
  - ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING, SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL APPROVED BY THE SOILS CONSULTANT. PROOF ROLLING SHALL BE PERFORMED UNTIL THE SUBGRADE IS APPROVED BY THE MUNICIPAL ENGINEER, OWNER AND SOILS ENGINEER.
  - THE WORK AREAS SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.

**SOIL EROSION AND SEDIMENT CONTROL**

- THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY, AND THE ILLINOIS URBAN MANUAL.
- BEFORE STARTING CLEARING AND SITE GRADING WORK, A CONSTRUCTION ENTRANCE AND SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS.
- THE CONSTRUCTION ENTRANCE TO THE SITE SHALL BE STABILIZED WITH GRAVEL PRIOR TO BEGINNING ANY WORK ON THE SITE. THE ENTRANCE SHALL BE MAINTAINED PERIODICALLY FOR ITS EFFECTIVENESS TO REMOVE DIRT WHICH COULD LEAVE THE SITE BY CONSTRUCTION VEHICLES.
- SILT FILTER FENCE SHALL BE PLACED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE MUNICIPALITY'S ENGINEERING INSPECTOR TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- STAINED SILT FENCE SHALL BE INSTALLED AND MAINTAINED AROUND THE INLETS AND CATCH BASINS AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
- A THIRD PARTY CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER ANY STORM EVENT IN EXCESS OF 1/2", AN INSPECTION REPORT SHALL BE FILLED OUT EACH TIME AND SHALL BE KEPT IN A BINDER AT JOB SITE AT ALL TIMES ALONG WITH NPDES PERMIT & SWPPP PLAN.
- AT THE COMPLETION OF THE PROJECT, ALL STORM SEWER PIPES AND STRUCTURES SHALL BE CLEANED AND FREE OF DIRT AND DEBRIS. THE SEDIMENTATION SHALL BE REMOVED FROM THE STORM SEWER SYSTEM AND SHALL NOT BE WASHED OUT IN THE STORM SEWER SYSTEM.
- THE TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE EFFECTIVELY UNTIL ALL THE PERMANENT EROSION CONTROL ITEMS ARE FULLY FUNCTIONAL.
- THE GUARANTEE PERIOD SHALL START AFTER ALL THE PERMANENT EROSION CONTROL MEASURES ARE FULLY FUNCTIONAL AND ACCEPTABLE TO OWNER OR HIS REPRESENTATIVE.
- A STOCKPILE OF ANY KIND SHALL NOT BE PLACED IN SPECIAL MANAGEMENT AREAS.
- IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR SUCH STOCKPILE.
- IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORM WATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION, THEN PROPERTIES AND SPECIAL MANAGEMENT AREAS DOWNSTREAM FROM SUCH DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
- STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
- THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED UNLESS A 1/2" OR GREATER RAINFALL EVENT IS FORECAST PRIOR TO 14 DAYS. IN THAT CASE THE PROPER SOIL PROTECTION SHALL BE INSTALLED IMMEDIATELY. STRIPPED AREAS NOT AT FINAL GRADE THAT WILL REMAIN UNDISTURBED FOR MORE THAN 7 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION. TEMPORARY COVER SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.
- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DETAHERING, IRRIGATION, OR FIRE HYDRANT FLUSHING SHALL BE FILTERED PRIOR TO LEAVING CONSTRUCTION SITE.
- GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASHDOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED CONTINUOUSLY.
- ALL CONTRACTORS SHALL COMPLY WITH SWPPP PLAN AND NPDES REQUIREMENT AND SHALL SIGN SWPPP ON FILE WITH OWNER OR GENERAL CONTRACTOR.

**PAVEMENT**

- FINE GRADING
  - PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE STREETS SHALL BE FINE GRADED TO WITHIN 0.05 FEET OF FINAL SURFACE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF CURB.
- CURB AND GUTTER
  - THE TYPE OF THE CURB AND GUTTER SHALL BE AS DETAILED ON THE ENGINEERING PLANS.
  - THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE.
  - THE STONE UNDER CURB AND GUTTER SHALL BE CONSIDERED INCIDENTAL.
  - THE CURB DEPRESSIONS FOR DRIVEWAYS AND HANDICAPPED RAMPS SHALL BE INSTALLED PER PLANS AND IDOT STANDARDS.
- PAVEMENT
  - THE PAVEMENT MATERIALS SHALL BE AS DETAILED ON THE ENGINEERING PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPLETED THICKNESS.
- GENERAL
  - THE PAVING CONTRACTOR SHALL:
    - REPAIR ANY BASE COURSE AND BINDER COURSE FAILURES PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE.
    - SWEEP CLEAN THE BINDER COURSE PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE. ANY DAMAGE TO THE BINDER COURSE SHALL BE REPAIRED BY THE CONTRACTORS AT NO ADDITIONAL COST TO THE OWNER.
    - PROVIDE CONSTRUCTION, EXPANSION, AND CONTRACTION JOINTS FOR CURB AND GUTTER, AND P.C.C. SIDEWALK PER IDOT STANDARDS AND MUNICIPAL STANDARDS.
    - REMOVE ALL EXCESS MATERIALS AND DEBRIS AND DISPOSE OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.
  - TESTING AND FINAL ACCEPTANCE
    - PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF ROLLED AND INSPECTED FOR UNSUITABLE SUBGRADE LOCATIONS. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE REMOVED AND REPLACED WITH GRANULAR MATERIAL APPROVED BY THE OWNER OR HIS REPRESENTATIVE. THE SUBGRADE SHALL HAVE MINIMUM BR VALUE OF 3.0.
    - PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
    - FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.
  - METHOD OF MEASUREMENT
    - CURB AND GUTTER, AND BASE COURSE SHALL BE MEASURED IN THE FIELD BY THE CONTRACTOR. THE QUANTITIES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION WHEN REQUESTED BY THE OWNER.
    - WHEN REQUESTED BY THE OWNER, DOCUMENTATION FOR THE INSTALLED BASE COURSE, BITUMINOUS CONCRETE BINDER, AND SURFACE COURSE, SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION AS REQUIRED BY THE MUNICIPALITY. THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE BITUMINOUS CONCRETE WITH A CORE DRILL WHERE DIRECTED, IN ORDER TO CONTROL THE PLAN THICKNESSES AS THICKNESS MEASUREMENT SHALL BE ADJUSTED FOR BY THE METHOD DESCRIBED IN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."
    - IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADES, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION AND IN ACCORDANCE WITH THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY.
  - LONGITUDINAL JOINT CONSTRUCTION
    - AS MANY LONGITUDINAL JOINTS AS PRACTICAL SHALL BE CLOSED AT THE END OF EACH DAY OF PAVING. A TACK COAT SHALL BE APPLIED TO THE "COLD" SIDE OF THE LONGITUDINAL JOINT PRIOR TO THE PLACEMENT OF THE HOT SIDE MAT.
    - LONGITUDINAL JOINT CONSTRUCTION SHALL BE COMPLETED BEFORE THE "COLD" SIDE OF THE JOINT FALLS BELOW 200' F.
    - IN THE EVENT OF THE TEMPERATURE OF THE "COLD" SIDE OF A JOINT FALLS BELOW 200' F PRIOR TO JOINT CONSTRUCTION COMPLETION THE CONTRACTOR SHALL PERFORM THE FOLLOWING:
      - HEAT THE COLD SIDE JOINT TO 200' F EITHER BY MEANS OF A HAND TORCH OR AN INFRARED HEATER. CONSTRUCTION TO AVOID BURNING ASPHALT DURING HEATING.
      - APPLY TACK COAT TO REHEATED JOINT PRIOR TO ASPHALT PLACEMENT.
- LONGITUDINAL JOINT DENSITY SPECIFICATIONS:
  - COMPLETED LONGITUDINAL JOINTS SHALL BE ASSESSED BASED ON SECTION 1030 OF THE STANDARD SPECIFICATIONS AND THE HOT MIX ASPHALT - DENSITY TESTING OF LONGITUDINAL JOINTS (BDE) AS FOLLOWS:
 

MIXTURE COMPOSITION	PARAMETER	INDIVIDUAL TEST (INCLUDES CONFIRMED EDGES)	UNCONFINED EDGE JOINT
IL-9.5, IL-12.5	Ndesign >= 90	92.0-96.0%	90%
IL-9.5, IL-9.5L, IL-12.5	Ndesign < 90	92.5-97.4%	90%
IL-19.0, IL-25.0	Ndesign >= 90	93.0-96.0%	90%
IL-19.0, IL-19.0L, IL-25.0	Ndesign < 90	93.0-97.4%	90%
SM	Ndesign = 50 & 80	93.5-97.4%	91%
ALL OTHER	Ndesign = 30	93.0-97.4%	90%

**STORM SEWER**

- ALL STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY.
- ALL PUBLIC STORM SEWERS SHALL BE REINFORCED CONCRETE CULVERT PIPE, ASTM C 76, WITH 10" RING RUBBER GASKET JOINTS CONFORMING TO ASTM C381, ASTM C443 AND ASTM C1619. THE ADS N-12, OR APPROVED HDPE PIPE PIPES SHALL CONFORM TO ASTM STANDARDS. THE JOINTS SHALL BE PER MANUFACTURER'S RECOMMENDATION AND ASTM STANDARDS. ALL UNDERPANS SHALL BE ADS N-12. FOR PRIVATE STORM SEWERS ANY MATERIAL OTHER THAN REINFORCED CONCRETE PIPE MUST HAVE APPROVAL OF THE THE DIRECTOR OF PUBLIC WORKS AND VILLAGE ENGINEER. THE SUBCONTRACTOR MUST SUBMIT TECHNICAL DATA ILLUSTRATING THE STORM SYSTEM MEETS OR EXCEEDS THE CHARACTERISTICS AND PERFORMANCE CAPABILITIES OF REINFORCED CONCRETE PIPE.
- ALL DOWNSPOUT AND FOOTING DRAINS SHALL BE DISCHARGED TO THE STORM SEWER SYSTEM OR ONTO THE GROUND.
- MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE MANHOLES AND CATCH BASINS SHALL BE 4' IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. MANHOLE JOINTS SHALL BE 10" RING GASKET JOINTS.
- ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A BEDDING, 1/4" TO 3/4" IN SIZE, WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT LESS THAN 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE GRANULAR MATERIAL FOR BEDDING AND TRENCH BACKFILL MATERIAL SHALL CONFORM TO DOT GRADATION CA-11 AND CA-6, RESPECTIVELY. THE GRANULAR MATERIAL FOR BEDDING AND INITIAL BACKFILL FOR FLEXIBLE PIPE SHALL BE NON-ANGULAR GRAVEL MATERIAL CONFORMING TO ASTM D-2321, CLASS 3. THE COST OF BEDDING MATERIAL SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER. THE BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR DENSITY.
- THE FRAME AND GRATE OR CLOSED LID SHALL BE AS SPECIFIED ON UTILITY PLANS. THE MANHOLE LIDS SHALL BE MACHINE SURFACED, NON-ROOFED DESIGN. THE CLOSED LIDS SHALL HAVE THE WORD "STORM" AND THE MUNICIPALITY NAME EMBOSSED ON THE LID. THE JOINT BETWEEN CONCRETE SECTION AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND.
- ALL STORM SEWERS SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.
- AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEER. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION, WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.
- MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND A MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT), NO 1" OR 2" CONCRETE RINGS ARE ALLOWED, UNDER PAVED AREAS, THE VERY TOP RING SHOULD BE ONE (1) ELEM INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISER (1" TO 3" MAX HEIGHT)
- VILLAGE OF ROMEOVILLE REQUIRES SUBMISSION OF RECORDED VIDEO INSPECTIONS OF ALL PUBLIC STORM SEWER.

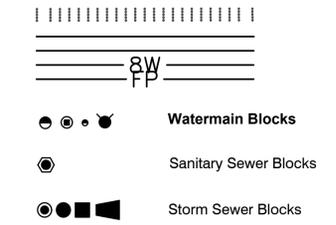
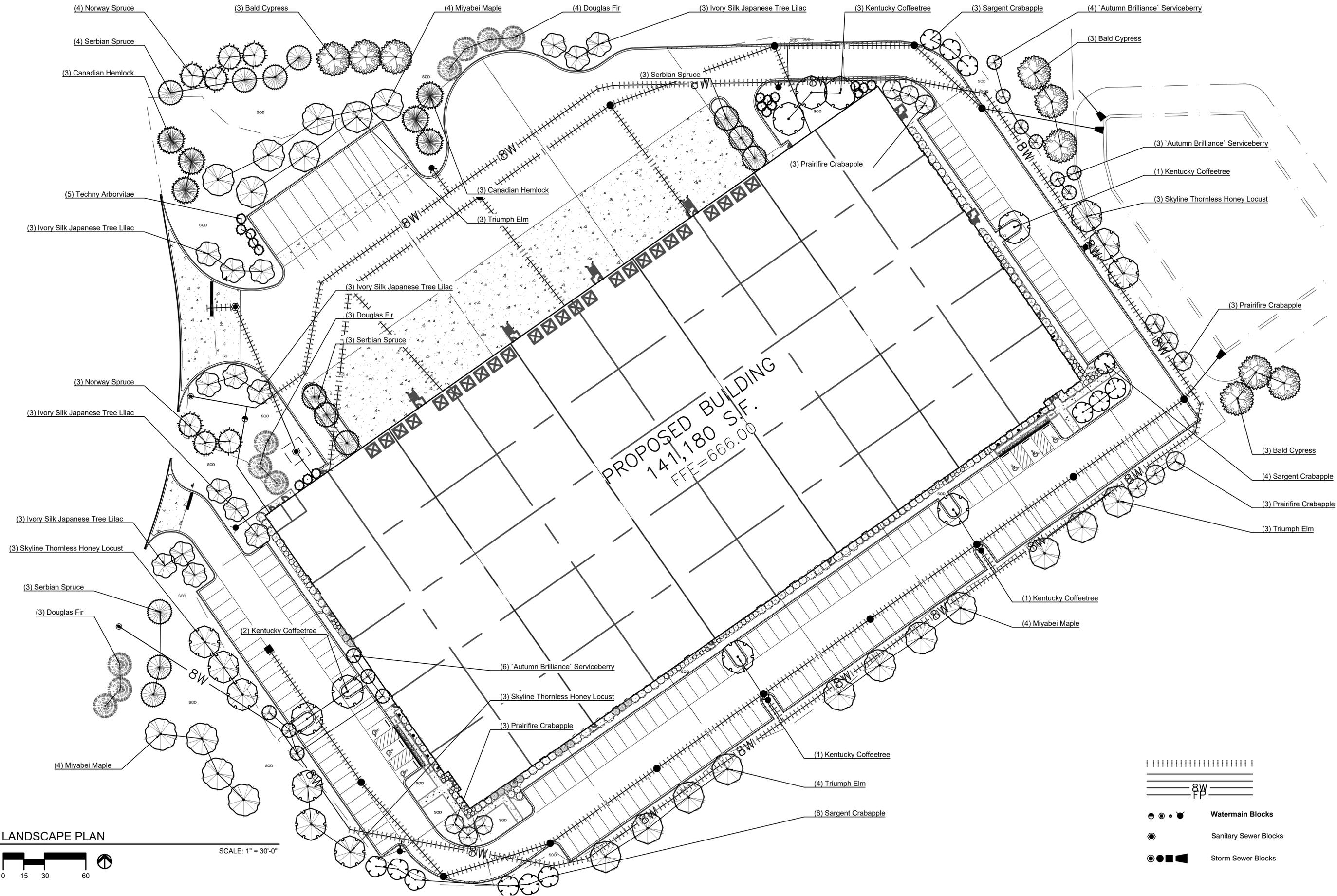
**WATER MAIN**

- WATER MAINS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE, CLASS 52, PIPE CONFORMING TO ANMA C-151 (ANSI A-21.51) WITH CEMENT MORTAR LINING AND BITUMINOUS SEAL COATING CONFORMING TO ANS-A-21.4 (ANSI A-104). ALL WATER MAIN SHALL BE POLYETHYLENE EXHAUSTED USING METHOD B. THE POLYETHYLENE MATERIAL SHALL BE IN CONFORMANCE WITH THE MUNICIPAL REGULATIONS.
- THE JOINTS SHALL BE RESTRAINED JOINTS CONFORMING TO ANS A-21.11 (ANMA C-111) AND ALL RETAINING CLAMPS SHALL BE SET SCREW OR MEQA-LUG TYPE. WATER MAIN FITTINGS SHALL BE OF DUCTILE IRON WITH CEMENT MORTAR LINING AND SEAL COATING WITH PUSH-ON JOINTS AND SHALL CONFORM TO ANSI A21.10 (ANMA C-110).
- MICALUSS (E8MA IRON) RESTRAINED JOINTS SHALL BE INSTALLED ON ALL WATER MAINS AT ALL BENDS, TEES, ELBOWS, ETC.
- DISTRIBUTION SYSTEM VALVES SHALL BE AMERICAN FLOW OR EAST JORDAN FLOWMASTER RESILIENT SEATED GATE VALVES CONFORMING TO ANMA C-509 LATEST STANDARD, AND SHALL BE APPROVED BY THE MUNICIPALITY. EACH VALVE SHALL BE INSTALLED IN A VALVE VAULT OR BOX OF SIZE SHOWN ON THE PLANS. THE LIDS SHALL BE EAST JORDAN 102223 OR APPROVED EQUAL, AND LETTERING ON THE CAST IRON FRAME AND LID SHALL INDICATE "WATER" AND THE MUNICIPALITY NAME.
- A MINIMUM DEPTH OF COVER OF 5'-6" SHALL BE MAINTAINED OVER THE WATER LINES.
- ALL WATER MAINS SHALL BE PRESSURE TESTED, FLUSHED AND DEWATERED IN ACCORDANCE WITH ANMA SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF 4 HOURS. ALLOWABLE LEAKAGE IS TO BE ONLY THAT WHICH IS PREDETERMINED BY THE STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN.
- FIRE HYDRANTS SHALL BE INSTALLED WITH AN AUXILIARY VALVE WITH CAST IRON VALVE BOX. FIRE HYDRANTS SHALL CONFORM TO MEET ALL REQUIREMENTS OF DUCTILE IRON IN THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY. THE HYDRANT SHALL FACE THE ROADWAY. THE FIRE HYDRANTS SHALL BE PAINTED PER THE MUNICIPALITY. THE VALVE BOX LID SHALL HAVE WORD "WATER" EMBOSSED ON THE LID. HYDRANTS SHALL BE EAST JORDAN 58900 WITH 6" PLAN-END AND WITH ATTACHED 5 INCH RESILIENT WEDGE MECHANICAL JOINT VALVE WITH STORZ PLEPER CONNECTION ALONG WITH TWO 2-1/2" HOSE CONNECTIONS. SEE FIRE HYDRANT DETAIL ON DETAIL SHEETS.
- MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH CURRENT MANUFACTURER'S RECOMMENDATIONS AND ANMA SPECIFICATIONS.
- BEDDING SHALL CONSIST OF A MINIMUM OF 4" OF COMPACTED CRUSHED GRAVEL OR STONE FOR ALL NEW WATER MAINS.
- ALL WATER MAINS SHALL BE SUBJECT TO A PRESSURE TEST AND A SEPARATE LEAKAGE TEST AT SYSTEM PRESSURE FOR 24 HOURS BY THE CONTRACTOR. HYDROSTATIC PRESSURE TEST AND LEAKAGE SHALL BE BASED ON 150 PS FOR 2 HOURS. WATER MAINS SHALL BE CHLORINATED SO THAT THE INITIAL CHLORINE RESIDUAL IS NOT LESS THAN 25 MG/L REMAINS AFTER 24 HOURS IN THE PIPE. DISINFECTION AND TESTING SHALL BE PERFORMED WITH A VILLAGE REPRESENTATIVE PRESENT.
- ALL VALVES SHALL BE AMERICAN FLOW OR EAST JORDAN FLOWMASTER RESILIENT SEATED GATE TYPE ANMA C509, CAST IRON BODY, BRONZE-TITLUE, MODIFIED WEDGE DISC WITH NON-RISING STEM AND O-RING PACKING DESIGNED FOR 200 POUND WORKING PRESSURE, WITH NON-RISING STEM, 1" TAPS WITH 1" SHUTOFF VALVE SHALL BE INSTALLED UPSTREAM AND DOWNSTREAM OF THE VALVE WITHIN THE VAULT.
- MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND A MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT), NO 1" OR 2" CONCRETE RINGS ARE ALLOWED, UNDER PAVED AREAS, THE VERY TOP RING SHOULD BE ONE (1) ELEM INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISER (1" TO 3" MAX HEIGHT)
- LEPA WATER MAIN PROTECTION
  - WATER MAINS:
    - HORIZONTAL SEPARATION:
      - WATER MAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICES CONNECTION.
      - WATER MAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:
        - LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET; AND
        - THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND
        - THE WATER MAIN IS IN A SEPARATE TRENCH.
    - BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET (a) OR (b) ABOVE, THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPOSED SURFACE HEAD BEFORE BACKFILLING.
  - VERTICAL SEPARATION:
    - A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICES CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSING. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
    - IF IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (a) OR (b) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN, THEN ONE OF THE FOLLOWING METHODS SHALL BE FOLLOWED:
      - THE STORM DRAIN SHALL BE CONSTRUCTED OF 10" RING JOINTS AND SANITARY SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATER MAIN STANDARDS.
      - THE WATER MAIN MAY BE ENCASED IN A WATERHOUSH CARRIER PIPE AS INDICATED ON THE PLANS AND AS PER THE SPECIAL CROSSING DETAIL SHOWN ON THE DETAIL SHEET.
      - A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BRACING THE WATER MAIN.
      - CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.

**SANITARY SEWER**

- UNLESS NOTED OTHERWISE, ALL SANITARY SEWER SHALL BE RING TILE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE. ALL PIPE SHALL CONFORM TO ASTM D-3034 WITH ELASTOMERIC RUBBER RING GASKET JOINTS CONFORMING TO ASTM D3212. THE STANDARD DIMENSION RATIO (SDR) FOR PIPE SHALL BE 26, UNLESS SHOWN ON PLANS. PVC SDR 21 SANITARY SEWER SHALL BE RING TILE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE CONFORMING TO ASTM D-2241 WITH ELASTOMERIC RUBBER RING GASKET JOINTS CONFORMING TO ASTM D-3139. THE PVC DR18 SANITARY SEWER SHALL CONFORM TO ANMA C500/C505 WITH RUBBER GASKET JOINTS CONFORMING TO ANMA C500/C505.
- CONNECTING SEWER PIPE OF DISSIMILAR MATERIAL IS NOT ALLOWED.
- ALL FLOOR DRAINS SHALL CONNECT TO THE SANITARY SEWER CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE MUNICIPALITY.
- ALL UNSUITABLE MATERIAL SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CRUSHED GRAVEL CONFORMING TO ASTM D-2321, CL 1.
- COST FOR BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER.
- BEDDING SHALL CONSIST OF A MINIMUM OF 4" OF COMPACTED CRUSHED GRAVEL OR STONE FOR ALL SANITARY SEWERS. SANITARY SEWERS SHALL HAVE TAPPED CRUSHED GRAVEL OR STONE COVER ABOVE THE TOP OF THE PIPE TO A MINIMUM OF 12" FOR SANITARY SEWER PIPE. THE BEDDING AND TRENCH BACKFILL MATERIAL SHALL CONFORM TO DOT GRADATION CA-11 AND CA-6, RESPECTIVELY & INSTALLED PER ASTM D-2321 CLASS 1.
- WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH EPA REQUIREMENTS AS SPECIFIED IN "WATER MAIN" SECTION.
- NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE.
- THE TESTING OF PIPES' STRAIGHTNESS, AND FIELD TESTING SHALL BE IN ACCORDANCE WITH DEVELOPMENT CODE OF THE MUNICIPALITY.
- SANITARY SEWER MANHOLES SHALL BE 5'-0" I.D., PRECAST REINFORCED CONCRETE RINGS OR MONOLITHIC CONCRETE CONFORMING TO ASTM D 478 AND SHALL HAVE AN ECCENTRIC CONE INSTALLED TO LINE UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE RESEALING 18"1-1 AT 18" O.C.
- ALL SANITARY SEWER MANHOLE LIDS SHALL BE EAST JORDAN 102223. THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF SEALING WITH 10" RING GASKET. THE LIDS SHALL HAVE THE WORD "SANITARY" AND THE MUNICIPALITY NAME EMBOSSED ON THE LID.
- ALL MANHOLE JOINTS SHALL BE SEALED WITH 10" RING JOINTS. ALL MANHOLES SHALL HAVE MISSION COUPLING TYPE FITTING FOR PIPE CONNECTIONS.
- DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS WHERE THE DIFFERENCE IN INVERT GRADIENTS EXCEEDS TWO FEET (2') OR AT LOCATIONS SHOWN ON THE PLANS. THE ENTIRE DROP ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BASKET.
- ALL MANHOLES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS AND ALL VISIBLE LEAKAGE ELIMINATED BEFORE FINAL INSPECTION AND ACCEPTANCE.
- TESTING FOR ACCEPTANCE OF SANITARY SEWERS AND MANHOLES ALL MANHOLES SEWERS INCLUDING SERVICE LINES SHALL BE TESTED FOR LOW PRESSURE AIR TEST, AND DEFLECTION TEST PER STANDARD SPECIFICATIONS AND SUBDIVISION REGULATIONS OF THE MUNICIPALITY AND SHALL BE APPROVED BY THE MUNICIPALITY BEFORE ANY OTHER WORK IS ALLOWED UNDER PAVED AREAS. THE VERTICAL SEPARATION FOR LEAKAGE IN ACCORDANCE WITH MUNICIPAL STANDARDS AND ASTM C 1244-02.
- TELEVISION TESTING ALL SANITARY SEWERS SHALL BE TESTED AND A COPY OF THE TAPE AND A WRITTEN REPORT SHALL BE SUBMITTED TO THE MUNICIPALITY FOR APPROVAL. THE REPORT SHALL INCLUDE STUB LOCATIONS AND DESCRIPTIONS, WATER LEVEL, AND LEAKS. TELEVISION TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING" ASTM STANDARD D-2412. TESTS SHALL ALSO BE CONDUCTED IN ACCORDANCE WITH ASTM D-3212 TO DEMONSTRATE JOINT PERFORMANCE AT 5R MAXIMUM DEFLECTION OF THE SPOUT, AS SPECIFIED IN ASTM D-3212 SPECIFICATIONS.
- TEST RESULTS IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ALL MATERIALS, AND WORKMANSHIP AS WELL AS BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS.
- CERTIFICATION CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING" ASTM STANDARD D-2412. TESTS SHALL ALSO BE CONDUCTED IN ACCORDANCE WITH ASTM D-3212 TO DEMONSTRATE JOINT PERFORMANCE AT 5R MAXIMUM DEFLECTION OF THE SPOUT, AS SPECIFIED IN ASTM D-321





DATE: 05.017.22  
 JOB: Commercial  
 SCALE: 1"=30'-0"  
 BY: CG  
 SHEET L1

**LAKEVIEW DR. Redevelopment**  
 Romeoville Illinois

SHEET TITLE:  
**PRELIMINARY  
 LANDSCAPE  
 PLAN**

REVISIONS:

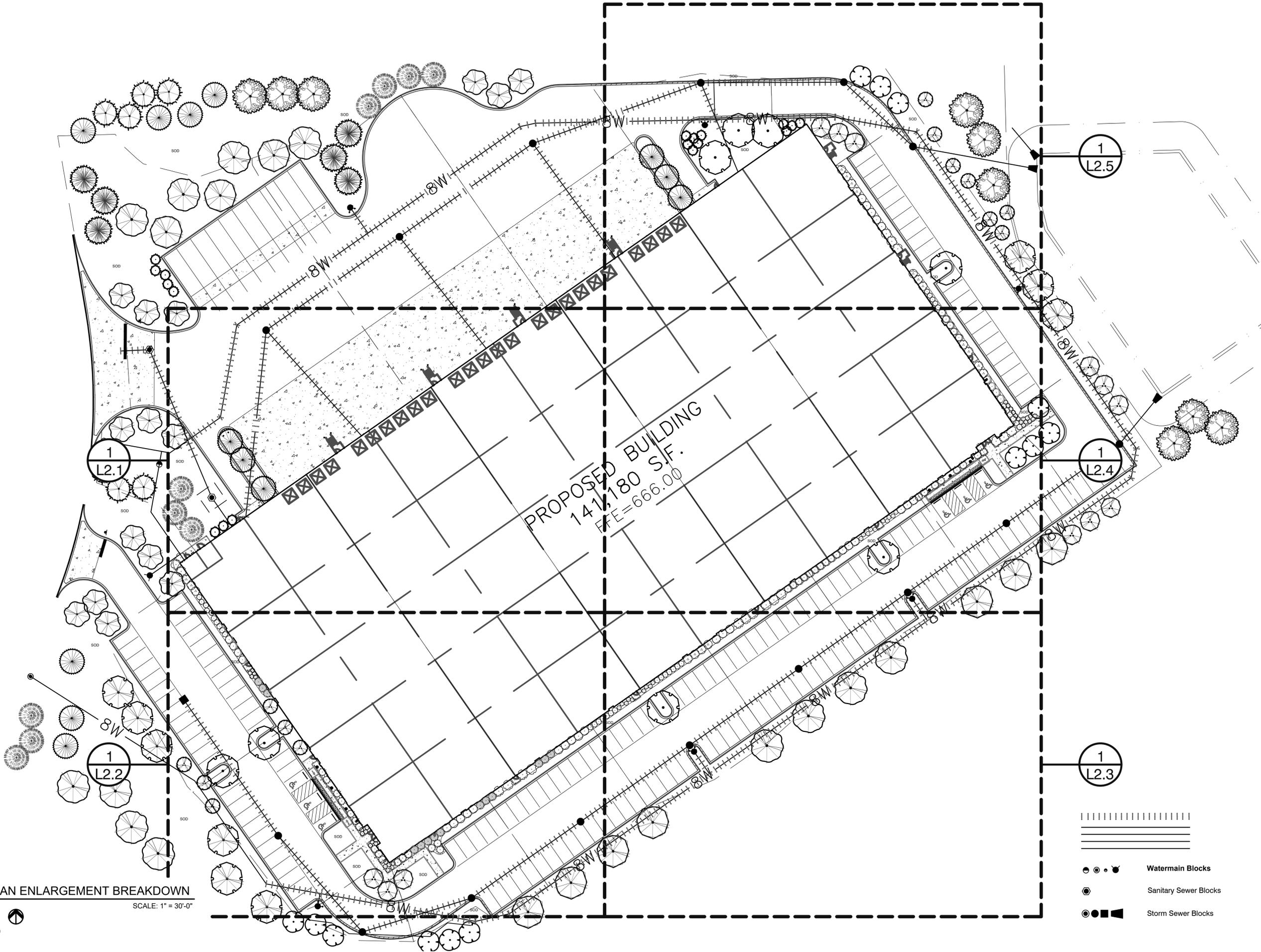

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**WINGREN LANDSCAPE**  
 A L L T H I N G S O U T D O O R

1 LANDSCAPE PLAN ENLARGEMENT BREAKDOWN

SCALE: 1" = 30'-0"

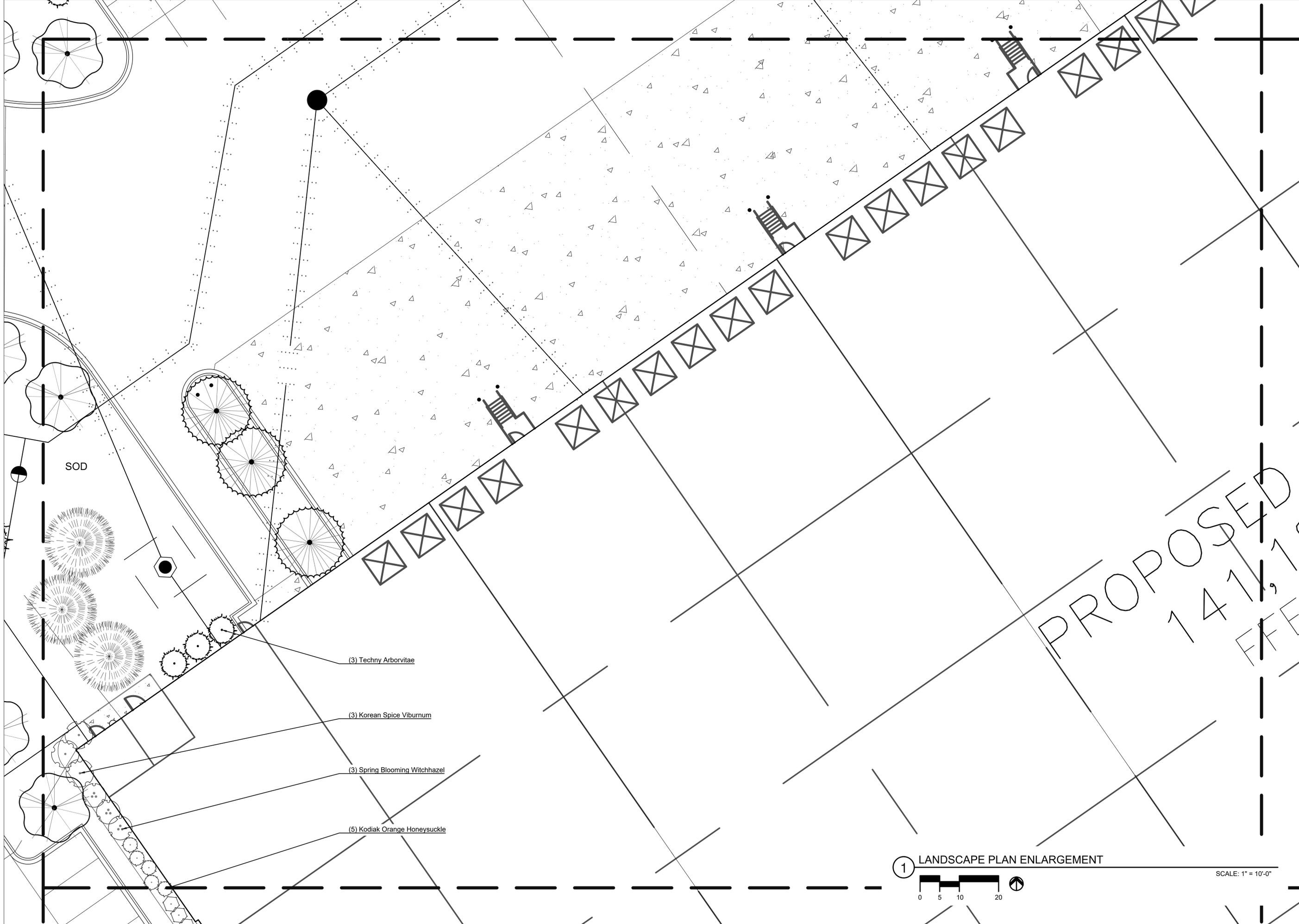


- Watermain Blocks
- Sanitary Sewer Blocks
- Storm Sewer Blocks

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SOD

(3) Techny Arborvitae

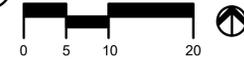
(3) Korean Spice Viburnum

(3) Spring Blooming Witchhazel

(5) Kodiak Orange Honeysuckle

PROPOSED  
14717

1 LANDSCAPE PLAN ENLARGEMENT



SCALE: 1" = 10'-0"

DATE: 05.01.22  
JOB: Commercial  
SCALE: 1"=10'-0"  
BY: CG  
SHEET L2.1

**LAKEVIEW DR. Redevelopment**  
Romeoville Illinois

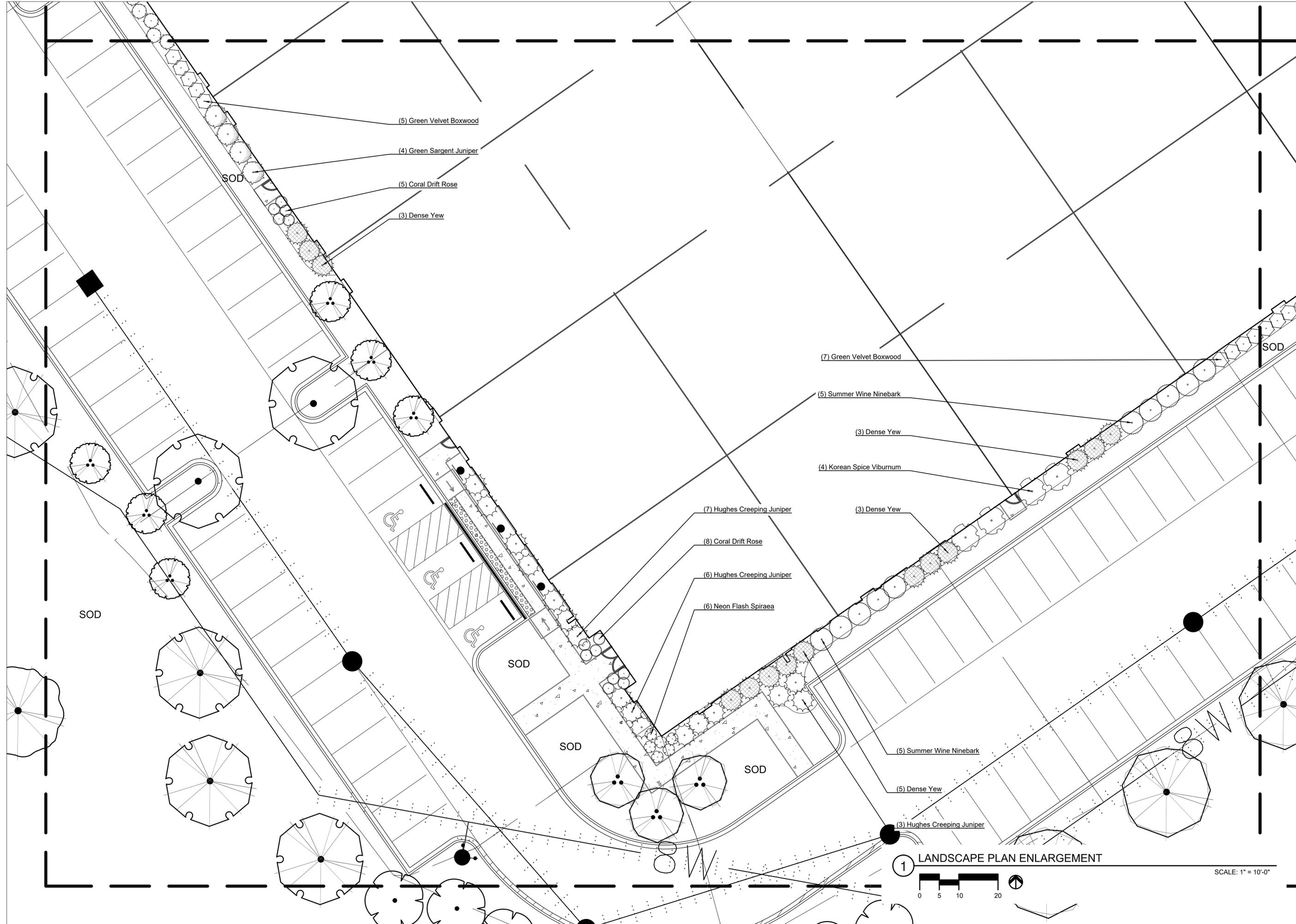
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**PRELIMINARY  
LANDSCAPE  
PLAN**

REVISIONS:

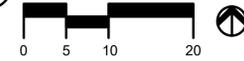

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SCALE: 1" = 10'-0"

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 SCALE: 1"=10'-0"  
 BY: CG  
 SHEET L2.2

**LAKEVIEW DR. Redevelopment**  
 Romeoville Illinois

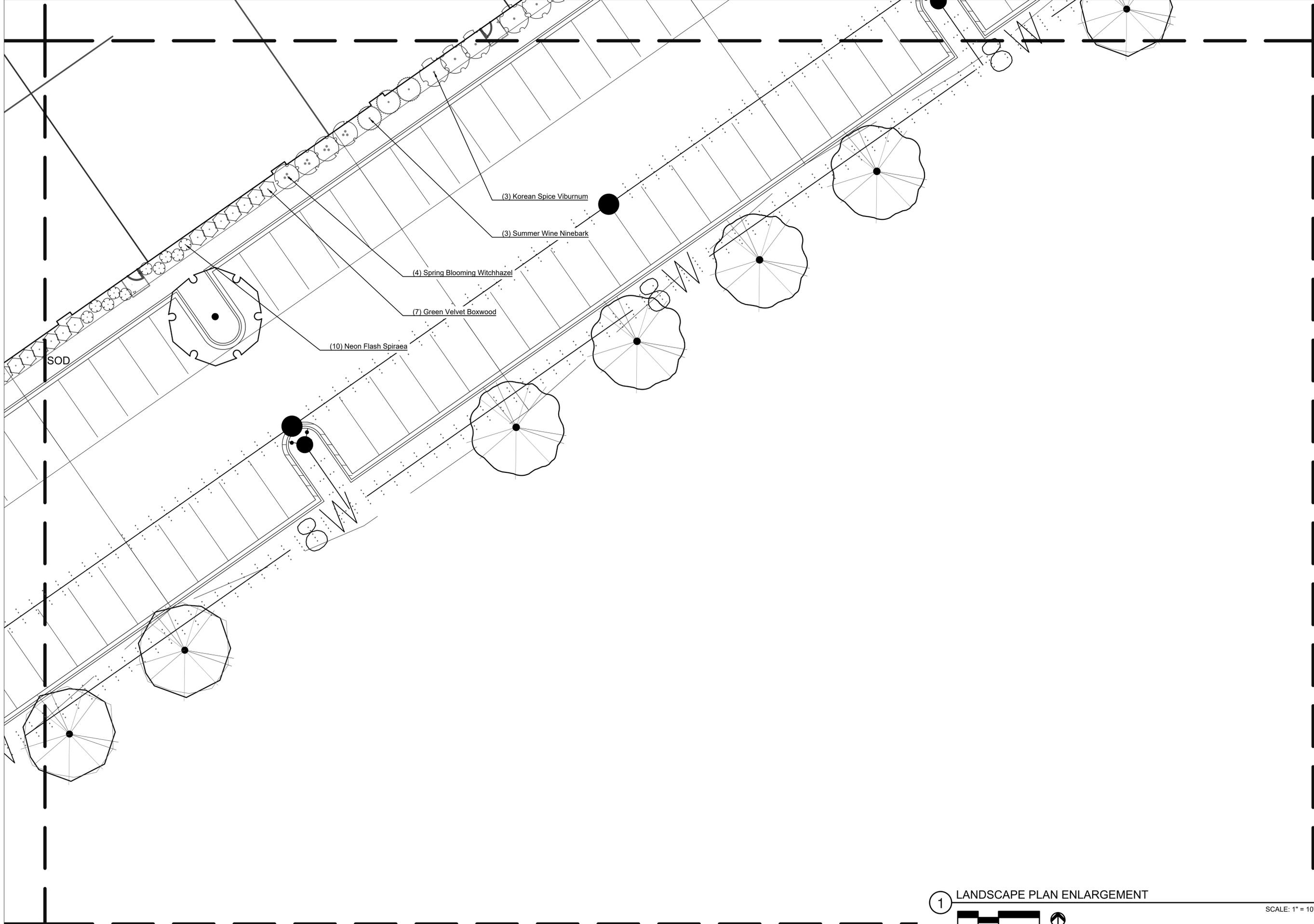
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**PRELIMINARY  
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 PLAN**

REVISIONS:

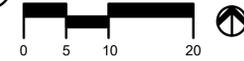

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1 LANDSCAPE PLAN ENLARGEMENT



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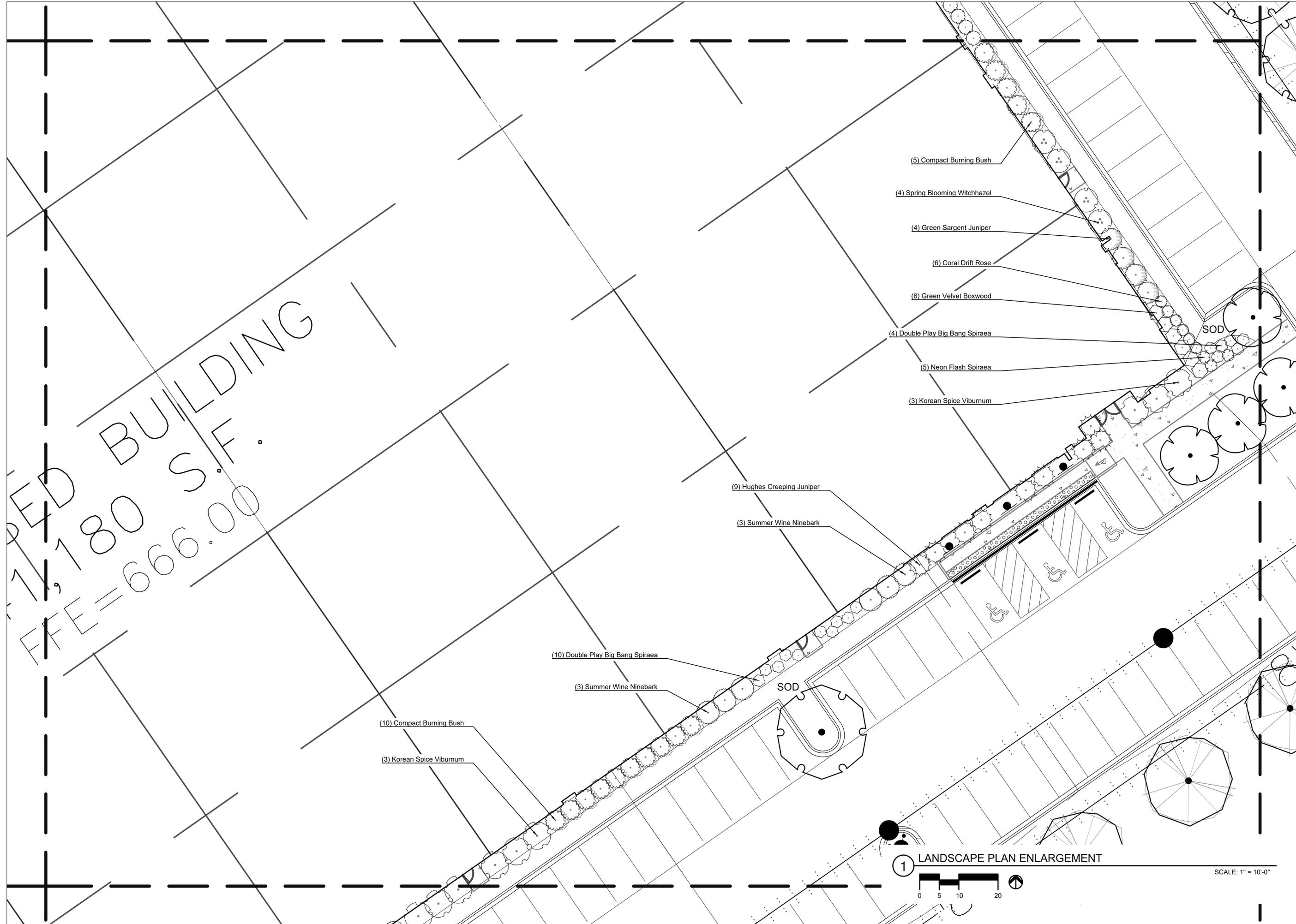
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**LAKEVIEW DR. Redevelopment**  
 Romeoville Illinois

DATE: 05.17.22  
 JOB: Commercial  
 SCALE: 1"=10'-0"  
 BY: CG  
 SHEET L2.3

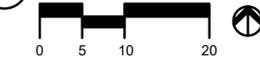


- (5) Compact Burning Bush
- (4) Spring Blooming Witchhazel
- (4) Green Sargent Juniper
- (6) Coral Drift Rose
- (6) Green Velvet Boxwood
- (4) Double Play Big Bang Spiraea
- (5) Neon Flash Spiraea
- (3) Korean Spice Viburnum

- (9) Hughes Creeping Juniper
- (3) Summer Wine Ninebark

- (10) Double Play Big Bang Spiraea
- (3) Summer Wine Ninebark
- (10) Compact Burning Bush
- (3) Korean Spice Viburnum

1 LANDSCAPE PLAN ENLARGEMENT



SCALE: 1" = 10'-0"

DATE: 05.17.22  
 JOB: Commercial  
 SCALE: 1"=10'-0"  
 BY: CG  
 SHEET L2.4

**LAKEVIEW DR. Redevelopment**  
 Romeoville Illinois

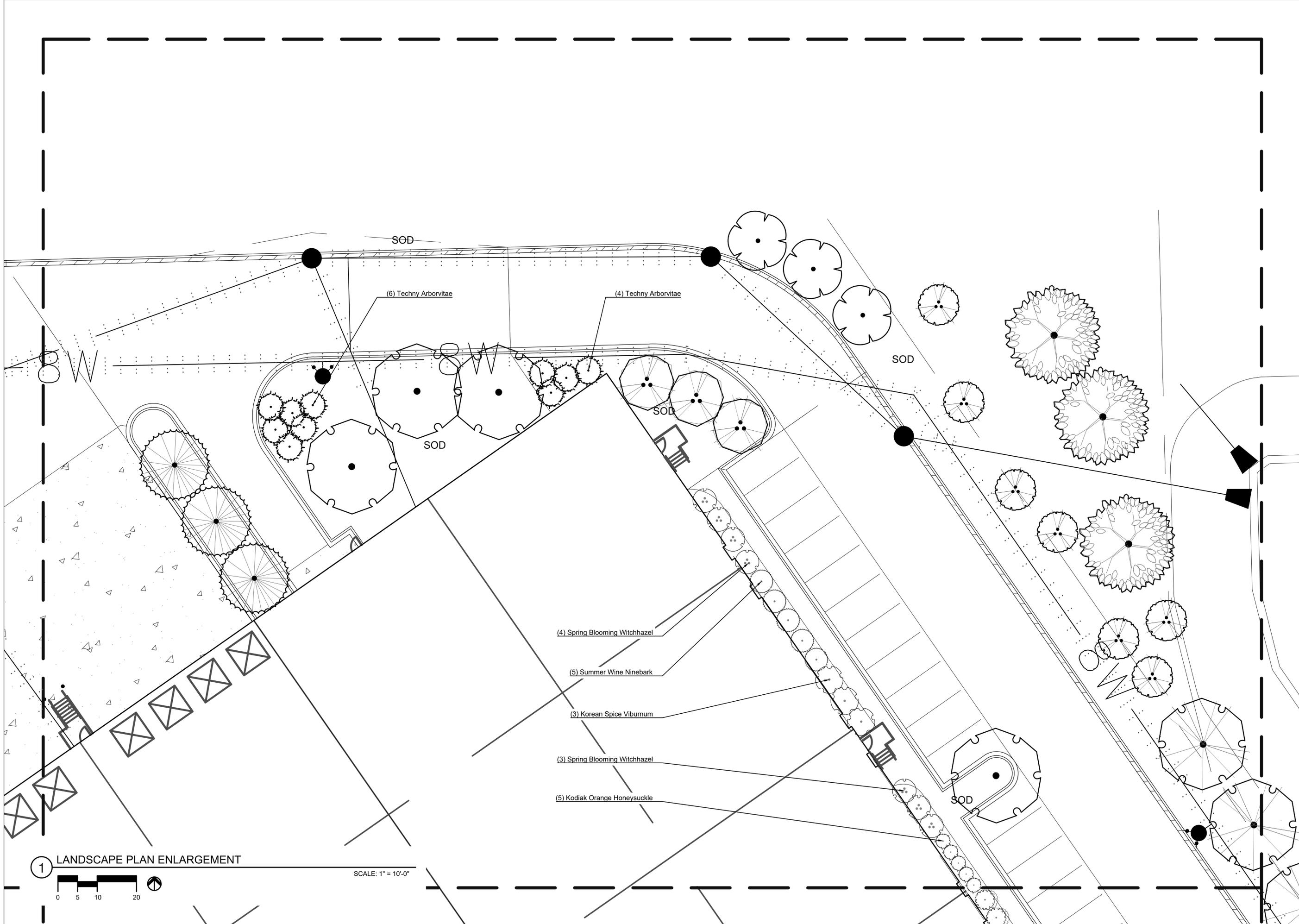
SHEET TITLE:  
**PRELIMINARY  
 LANDSCAPE  
 PLAN**

REVISIONS:


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**WINGREN LANDSCAPE**  
 A L L T H I N G S O U T D O O R



1 LANDSCAPE PLAN ENLARGEMENT

SCALE: 1" = 10'-0"



DATE: 05.17.22  
 JOB: Commercial  
 SCALE: 1"=10'-0"  
 BY: CG  
 SHEET L2.5

**LAKEVIEW DR. Redevelopment**  
 Romeoville Illinois

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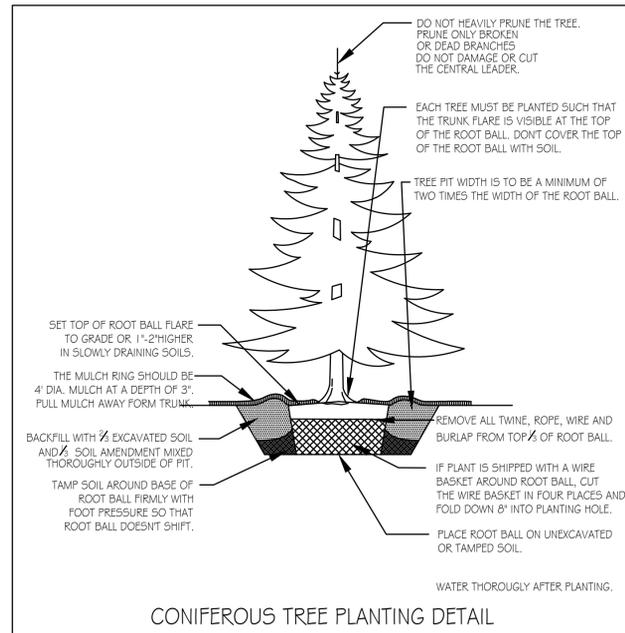
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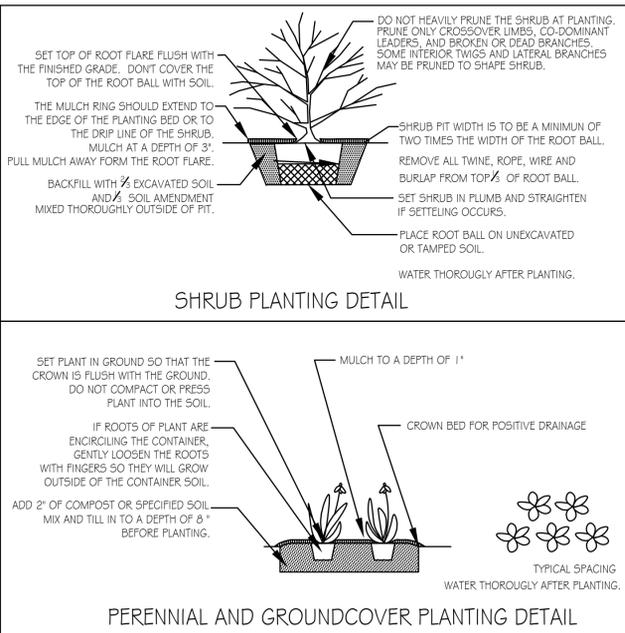
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**PLANT SCHEDULE**

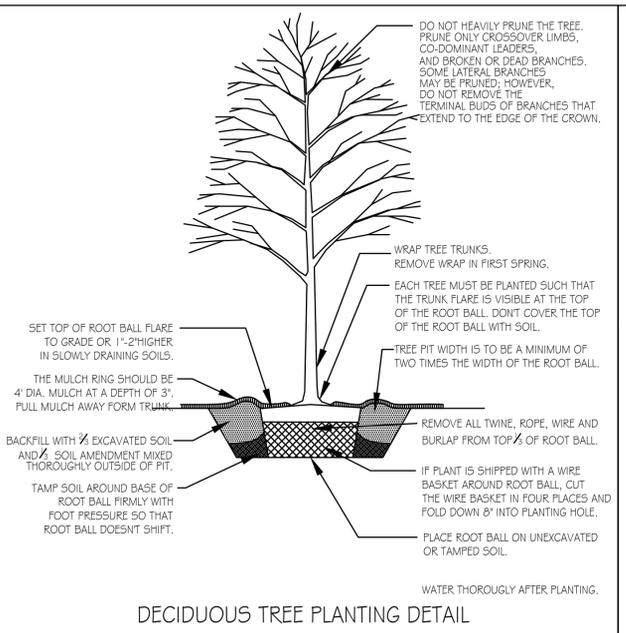
SHADE TREES	Quantity	Botanical	Common	Cont	Cal	Size
ACMI	12	Acer miyabei 'State Street'	Miyabei Maple	B & B	2.5"	Cal
GLTR	9	Gleditsia tria. v. inermis 'Skycoale' TM	Skyline Thornless Honey Locust	B & B	2.5"	Cal
GYDI	8	Gymnocladus dioica	Kentucky Coffeetree	B & B	2.5"	Cal
SYIS	15	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	B & B	2.5"	Cal
TS	9	Taxodium distichum 'Shawnee Brave' TM	Bald Cypress	B & B	2.5"	Cal
ULMG	10	Ulmus x 'Morton Glossy'	Triumph Elm	B & B	2.5"	Cal
ORNAMENTAL TREES	Quantity	Botanical	Common	Cont	Cal	Size
AMGA	13	Amelanchier grandiflora 'Autumn Brilliance'	'Autumn Brilliance' Serviceberry	B & B		6'
MAPF	12	Malus hybrid 'Prairifire'	Prairifire Crabapple	B & B		6'
MSAR	13	Malus m. sargentii	Sargent Crabapple	B & B		6'
EVERGREEN TREES	Quantity	Botanical	Common	Cont	Cal	Size
PIAB6	7	Picea abies	Norway Spruce	B & B		6'
PO	13	Picea omorika	Serbian Spruce	B & B		6'
PD	10	Pseudotsuga menziesii	Douglas Fir	B & B		6'
THOC	18	Thuja occidentalis 'Techny'	Techny Arborvitae	B & B		6'
TC	6	Tsuga canadensis	Canadian Hemlock	B & B		6'
SHRUBS	Quantity	Botanical	Common	Cont	Cal	Size
LR	10	Diervilla x 'G2X88544' TM	Kodiak Orange Honeysuckle	5 gal		
EUAC	15	Euonymus alatus 'Compactus'	Compact Burning Bush	5 gal		
HS	18	Hamamelis vernalis	Spring Blooming Witchhazel	5 gal		
PHSW	24	Physocarpus opulifolius 'Summer Wine'	Summer Wine Ninebark	5 gal		
R4	19	Rosa x 'Meidrifora'	Coral Drift Rose	3 gal		
SN	21	Spiraea x bumalda 'Neon Flash'	Neon Flash Spiraea	5 gal		
SD	14	Spiraea x 'Tracy' TM	Double Play Big Bang Spiraea	5 gal		
VCC	19	Viburnum carlesii 'Cayuga'	Korean Spice Viburnum	5 gal		
EVERGREEN / BROADLEAF	Quantity	Botanical	Common	Cont	Cal	Size
BGV2	25	Buxus microphylla koreana 'Green Velvet'	Green Velvet Boxwood	5 gal		
JH	25	Juniperus horizontalis 'Hughes'	Hughes Creeping Juniper	5 gal		
JV	8	Juniperus sargentii 'Viridis'	Green Sargent Juniper	5 gal		
TAME	14	Taxus media 'Densiformis'	Dense Yew	5 gal		



CONIFEROUS TREE PLANTING DETAIL



PERENNIAL AND GROUNDCOVER PLANTING DETAIL



DECIDUOUS TREE PLANTING DETAIL

- GENERAL NOTES**
- Species and sizes of plants listed in the plant list are subject to availability at time of installation. If substitutions are necessary, the landscape contractor shall submit all requests to the owner for approval.
  - All underground utilities are to be located prior to digging. If utilities or other obstructions are discovered to conflict with grading or plant placement, notify the landscape architect so that adjustments can be made.
  - Backfill trees and shrubs with amended topsoil mixed thoroughly outside of the planting pit. Mulch trees and shrubs with 3" hardwood mulch and pull mulch away from the base.
  - Perennial and groundcover beds are to be amended with 2" planting mix and tilled in to a depth of 8". Perennials and groundcovers are to be top dressed with 1" mulch.
  - Provide positive drainage flow. Do not obstruct the natural or engineered drainage flow patterns. Notify the landscape architect or owner of any drainage concerns.
  - The landscape contractor shall take all precautions to protect existing plants, lawn, and paved areas to remain. Any damage to these areas shall be repaired or replaced by the landscape contractor. Damaged lawn areas are to be re-graded and restored with sod.
  - All bed edges are to be well shaped 'spade cut' edges, 3" deep, formed in lines or curves as shown on the drawings.
  - Apply a pre-emergent for grassy and broadleaf weeds to all shrub beds and tree rings. Do not apply pre-emergent to beds of groundcovers or annuals.
  - The contractor is to provide finished grade to a tenth of a foot with sufficient quality top soil. Topsoil to be 4" min. in all lawn areas. The landscape contractor is to provide fine grade only.

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